SEPTEMBER '58

MODERN TEXTILES MAGAZINE

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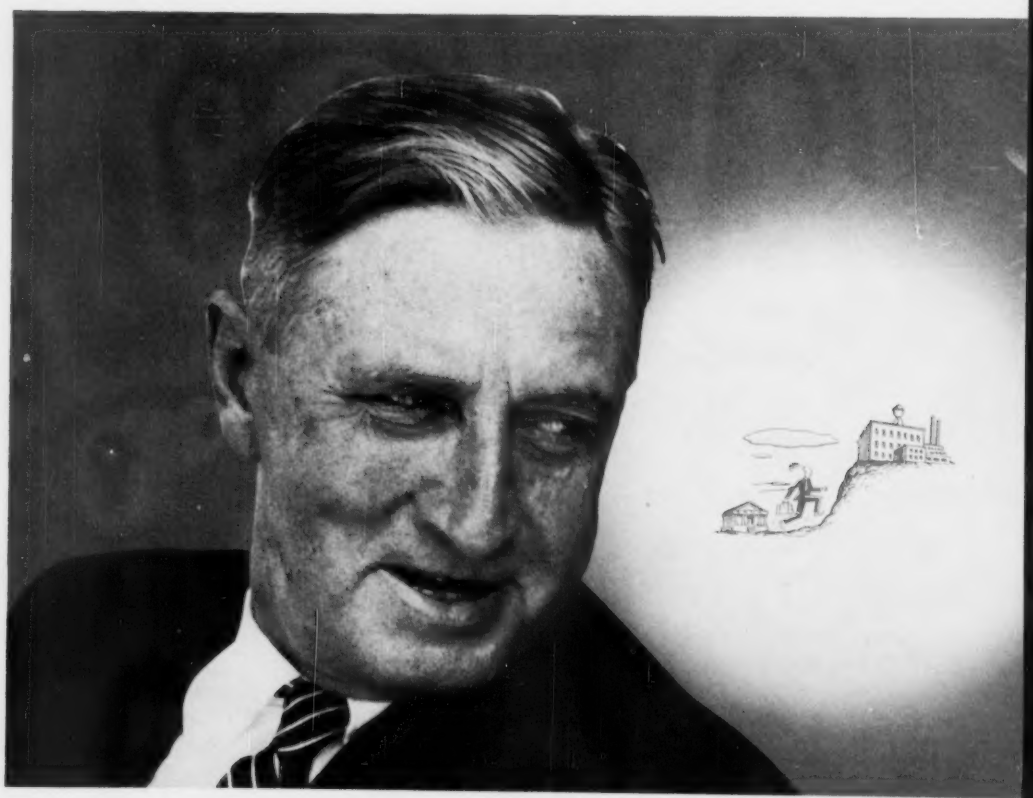
FABRICS

FINISHES



Abney & Erwin's F. E. GRIER — a banker who learned to be a good millman — story page 33

OUR ANNUAL MAN-MADE FIBER REVIEW WITH

20-page guide to profits with man-made fibers

Big pull-out tables of deniers & filaments

Preview of Greenville Textile Show

PLUS OUR USUAL TIMELY REPORTS AND HELPFUL ARTICLES

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For nearly 60 years Sonoco cones have effected many important economies directed toward more profitable textile operations.

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LESS OIL IS NEEDED.
TRAVELER DISTRIBUTES OIL.
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better lubrication with less oil

SEAM LUBRICATION. A new idea . . . utilizes the principle of capillary attraction to provide more uniform lubrication than has been possible in the past. It is the outstanding feature of the new "M" type ring.

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1. **LESS OIL IS USED IN THIS NEW "M" TYPE RING** because no oil is wasted. It all goes to the bearing surfaces of the ring through the seams.

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6. **REDUCES YARN BREAKAGE.** As in all Herr Conical Rings, tension is automatically adjusted by the action of the traveler and conical design of the ring.

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The 5½" diameter 43/64" face Herr Conical Ring requires only one oil cup.

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FOR SPINNING AND TWISTING WORSTED, WOOLEN, RAYON, NYLON, ORLON, FIBERGLASS AND BLENDED YARNS OF ALL TYPES

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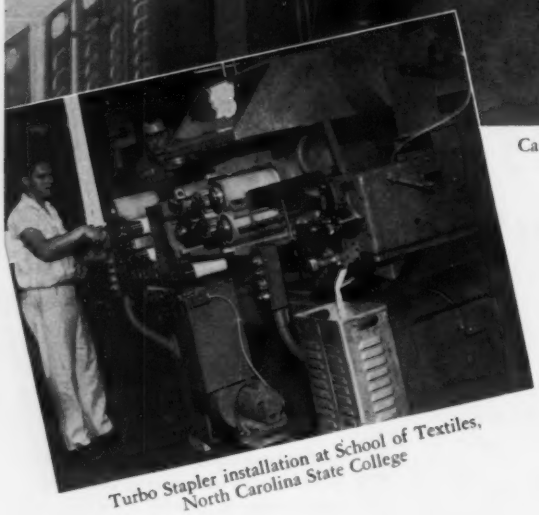

Turbo Stapler installation at School of Textiles, North Carolina State College

3 PROGRESS REPORTS on Tow Processing Via the Turbo Stapler

Experimentally

Most fiber producers are working with Turbo Staplers to achieve new fiber effects with synthetic tow. Turbo offers a complete "laboratory" to check out new ideas in man-made fibers. Adaptable to all acrylic fibers, the Turbo Stapler is a practical laboratory tool for enhancing basic fiber properties.

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Leading textile schools are using the Turbo Stapler for practical classroom demonstration. Students quickly learn the few simple adjustments necessary to regulate the degree of heat-stretch, control the degree of crimp, and control staple length.

Let us discuss the mill-proved advantages of the Turbo Stapler with you. Call or write today.

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The amazing success story of Turbo High Bulk for sweaters is best told in these words: every day 90% of the high-bulk sweaters sold are knitted from Turbo High-Bulk Yarn. Synthetic fibers processed by the Perlok System on Turbo Staplers spin into yarns of exceptional evenness with a perfect balance of loft and bulk. More than 50 leading spinners are Turbo Stapler-equipped.

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Makers of Precision Heat and Steam Setting Machines, Crimpers, and Tow Processing Equipment

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MODERN
TEXTILES MAGAZINE

September, 1958 Vol. 39, No. 9

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Established 1925

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The Principal Trade Groups

American Association of Textile Chemists and Colorists ..... Lowell Techn. Inst., Lowell, Mass.
American Association for Textile Technology, Inc. ..... 100 W. 55th St., New York
American Cotton Manufacturers Institute, Inc. ..... 1501 Johnston Bldg., Charlotte, N. C.
American Cotton Manufacturers Institute, Inc. Man-Made Fibers and Silk Division ..... 10 East 40th St., New York
American Rayon Institute ..... 350 Fifth Avenue, New York
Man-Made Fiber Producers Association ..... 350 Fifth Ave., New York
Silk and Rayon Printers and Dyers Ass'n of America, Inc. ..... 1450 Broadway, New York
Synthetic Organic Chemical Manufacturers Association ..... 41 E. 42nd St., New York
Textile Distributors Institute, Inc. ..... 469 Seventh Ave., New York

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LAST WORD ON NONWOVENS

In two installments in our November and December issues, Modern Textiles Magazine will give its readers a special report on nonwoven fabrics. Even though much has been written on nonwovens in recent years, we believe our two-part article is the most informative that has yet appeared dealing with this fast-moving, expanding area of textile manufacturing.

It has been written by Howard E. Shearer of American Viscose Corp., who for years has made the whole field of nonwovens manufacture and end uses a matter of special study. He is recognized throughout the industry as possibly the best informed person on nonwoven fabrics.

Shearer's article has an encyclopedic range. It tells how the major types of nonwovens are made and finished and it gives detailed descriptions of manufacturing techniques and machinery set-ups.

The article also contains a list of patents in the nonwoven field—a list never before available anywhere. Included in its scope too, is a list of end uses for nonwovens and a list of manufacturers of machinery used in the various processes of nonwoven manufacture.

Rayon Plant Discontinued

American Viscose Corp. last month announced that it is planning to discontinue operations at its Roanoke, Va., plant where 1,750 workers are employed in manufacturing continuous filament yarn for apparel and decorative uses. The plant started to operate in 1917. Henry H. Bitler, vice president and general manager of the company's fibers division, stated that American Viscose has adequate facilities at its Lewistown, Pa., and Parkersburg, W. Va., plants to fill customers' requirements for continuous filament yarns.

Cotton Properties Altered

Several significant changes in the physical properties of cotton treated by carboxymethylation have been found by investigators at the Southern Utilization Research and Development Division of the Agricultural Research Service, USDA. The finds are reported in a paper, "Physical Properties of Chemically Modified Cottons—Part IV: Effects of Partial Carboxymethylation," prepared by James N. Grant, Allan W. McDonald and Geraldine C. Humphreys. *Reprints of the paper may be obtained by writing the editors.*

Nylon Staple Prices Reduced

Prices of nylon staple fiber in deniers intended largely for carpet use were reduced last month by the Du Pont Co. and Industrial Rayon Corp. Du Pont cut its 15 denier staple 12 cents a pound bringing the prices for bright regular to $1.08; dull regular $1.10; bright crimpset $1.10 and dull crimpset $1.12.

Industrial reduced the price of its 15 and 22 denier nylon staple from $1.20 a pound to $1.08. The price of 8 denier nylon staple fiber was reduced from $1.20 a pound to $1.15. The price of 3 and 6 denier nylon staple remains unchanged at $1.28 a pound.

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WITHSTANDS
HI-SPEED
PRESSURE OF
SYNTHETIC YARNS
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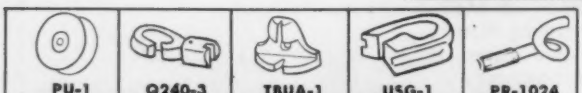
LOW COSTS.



OTHER STANDARD SIZES AVAILABLE

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New word in blends: Zefran®

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(Zĕf-răn), n. 1.

Entirely new acrylic alloy fiber made exclusively by The Dow Chemical Company. In blends, Zefran opens a wide new world for other fibers (yet can be dyed and processed on existing systems). 1. With wool, Zefran increases spin limit, improves bloom and hand, yet builds "maid-service" right into fabric. 2. With finer fibers, like angora, Zefran looks and feels like *vicuna*, yet costs far less and behaves *itself*. 3. With cotton, Zefran accentuates cotton's virtues, develops maximum yarn properties with lower twist, gives cotton a year-round season. 4. With silk, Zefran takes on silk's unique hand, yet minimizes wrinkling and spotting. 5. With other synthetics, Zefran adds many desirable characteristics of natural fibers. 6. No matter what it's blended with, the greater the percentage of Zefran, the greater the dimensional stability.

Fabrics now being created by selected mills (for apparel only). For further information write The Dow Chemical Company, Textile Fibers Department, Williamsburg, Va.

You can depend on DOW®

"Graphtex" FOR

"Graphtex" is THE Scour for Removing Graphite from Nylon Lace!

Leatex

LEATEX CHEMICAL COMPANY
2727 N. HANCOCK ST., PHILADELPHIA, PA.

New Von Kohorn Contract

Under contracts concluded with Sniafa, S.A., Buenos Aires, Argentina, Von Kohorn International Corp. will supply a cellophane and a viscose staple plant to the South American company, one of that continent's largest rayon producers. Von Kohorn also will furnish production know-how and technical assistance for Sniafa's existing rayon yarn and staple plant. The contracts involve machinery for over $6 million and will give Sniafa over 20 million pounds of additional production capacity, Von Kohorn said.

New Man-Made Fibers Engineering Firm

A new company, Chemtex, Inc., has been formed to provide process information, machinery and plant design for the synthetic fiber and film industry. It will operate in the United States and throughout the world.

Offices of the new company are at 821 United Nations Plaza in New York City. Eugene H. Remmer, is president and the staff includes H. P. von Bucher, I. P. Dennyssen and William Brass. All were formerly connected with Rayon Consultants, Inc. The range of Chemtex's activities in the designing and building of plants and equipment will include cellulosics and fully synthetic fibers, yarns and films.

New Dayton Rubber Division

The Dayton Rubber Co. has formed a Molded Products Sales Division with a plant located at Three Rivers, Mich. The new unit will market a wide range of natural and synthetic rubber industrial machine parts. Future plans call for the development of new elastomers for special uses as well as continued industrial applications for precision parts, and research and development in the vibration control field.

The new division is the second formed by Dayton Rubber in recent months. A marked increase in demand for flexible and rigid urethane foams as well as liquid chemicals for a wide variety of foamed-in-place applications, resulted in the establishment of the Plastics Division in late 1957.

New Caprolactam Producer

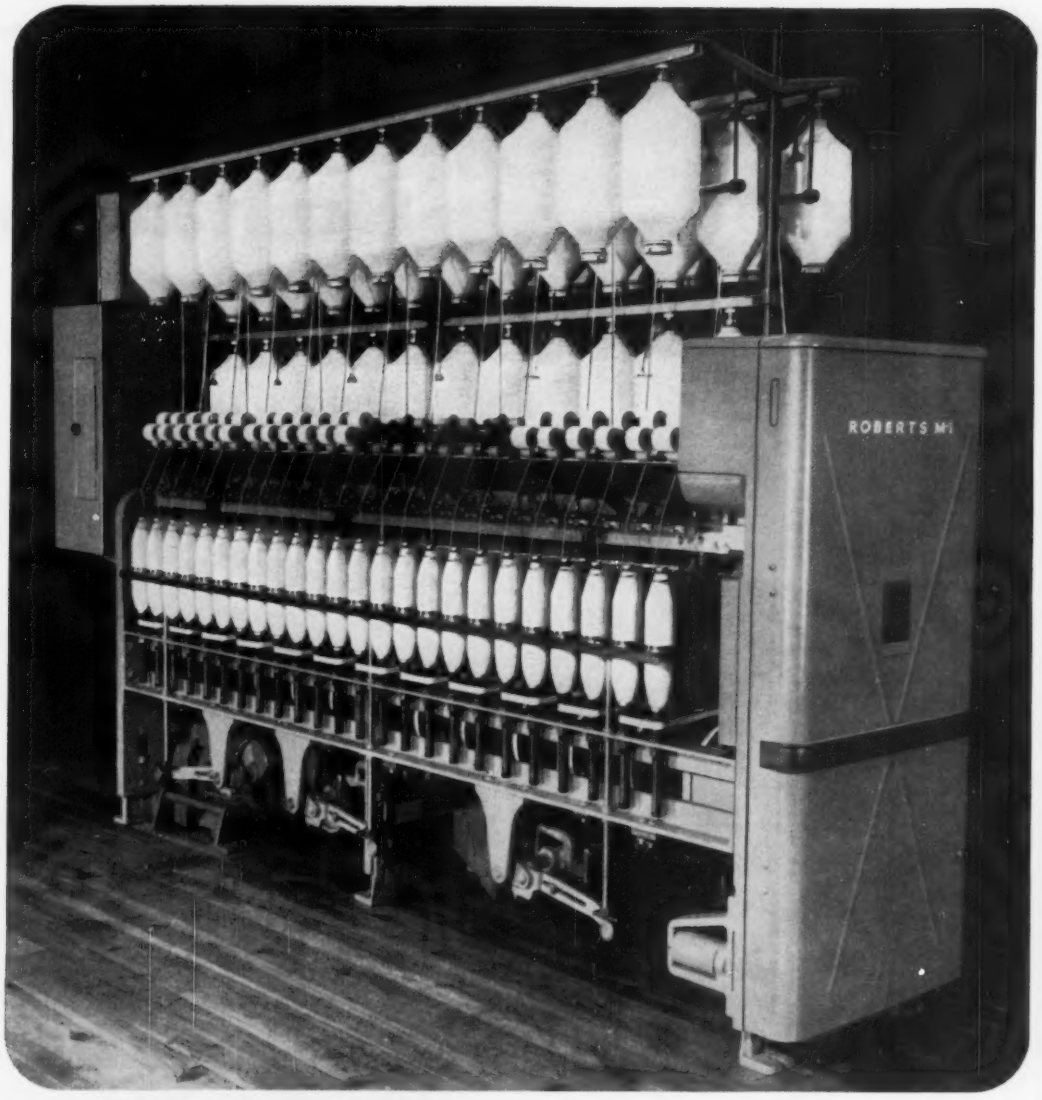
Industrial Rayon Corp. and Spencer Chemical Co. have formed the Ohio River Chemical Co. for the sole purpose of producing caprolactam, a basic raw material used in the manufacture of nylon. Ohio River Chemical will construct and operate a 20-million-pound caprolactam plant near Ashland, Ky. The initial cost of the facility is expected to top $10 million.

Industrial Rayon presently uses caprolactam in making nylon staple fiber for floor coverings and various other textile applications. It has a nylon plant at Covington, Va. Spencer uses caprolactam to make molding resins for sale to plastic processors. Spencer also intends to sell a portion of the Ohio River Chemical production in the open market.

Construction of the plant, under license agreement with Dutch States Mines whereby Ohio River Chemical will use the Dutch firm's process to manufacture caprolactam, will start this fall with completion scheduled for early 1960.

Spencer will be responsible for the supervision of engineering, construction and operation of the new plant, J. E. Straub, formerly production superintendent at Spencer's Vicksburg, Miss., Works, has been named general manager of the new firm.

Industrial Rayon also operates rayon plants at Cleveland and Painesville, Ohio.



ROBERTS SPINNING

ALL NEW—ALL BALL BEARING ROBERTS M-1 SPINNING FRAME

330 Roberts 25-inch Frames, with over 105,000 spindles, have been installed in American mills in the past two years. These Roberts Frames are very ruggedly built and exceptionally simple in design. Only tried and proven principles are used, which insure consistent high quality results.

Roberts M-1 Frames produce better yarns at higher front roll speeds and put more ounces of yarn on the bobbin. The ball bearing construction provides smoother operation plus reduced power use. Changes in draft, twist, lay, or speed are made very simply. Roberts M-1 Frames are available in 25-, 36- and 39-inch widths, for cotton, synthetics, worsted or blends, in short or long fiber lengths.

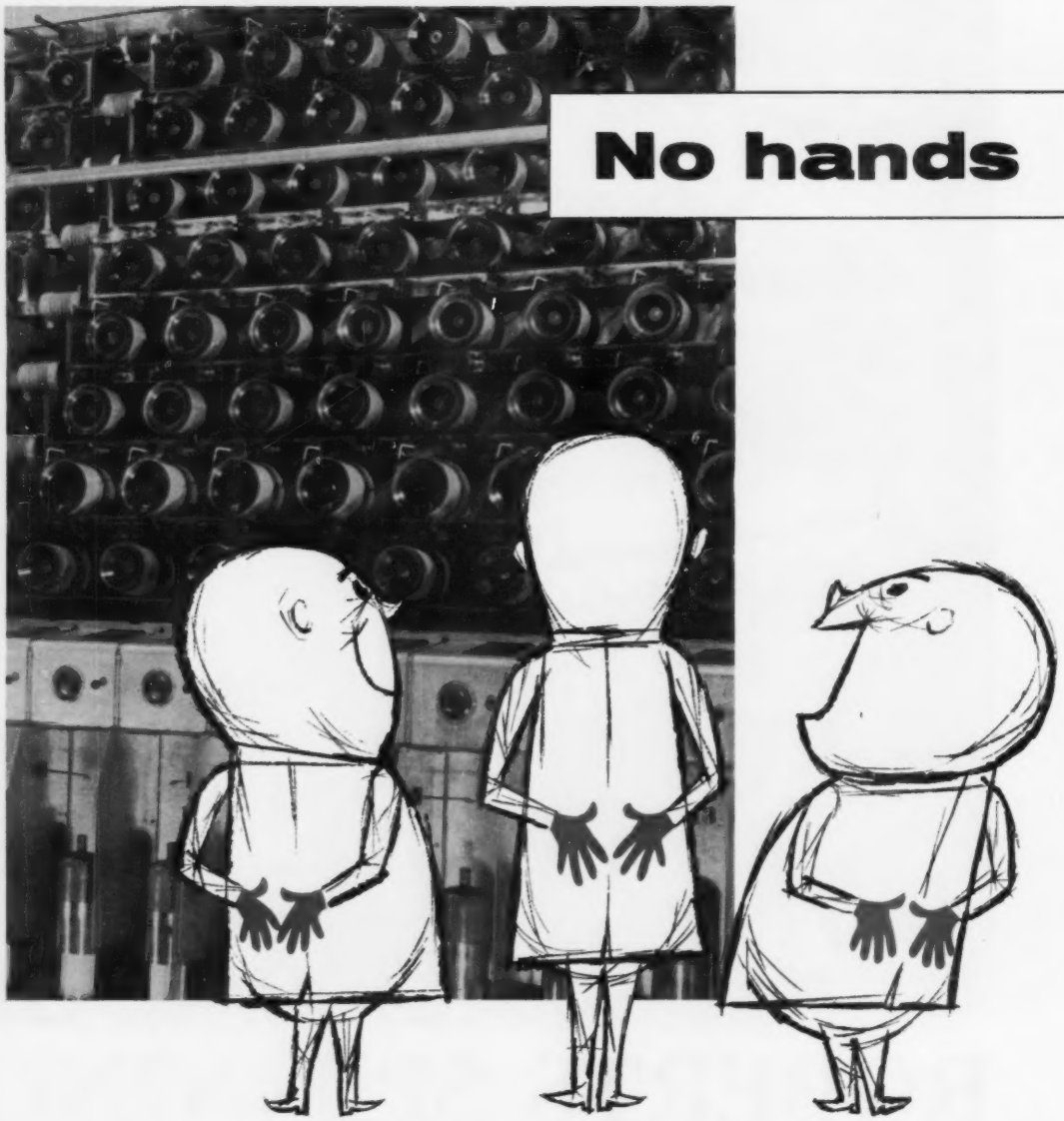
The benefits of big package spinning are available at

$32 to $40 per spindle

including freight and installation

ROBERTS COMPANY

SANFORD, NORTH CAROLINA



No hands

Did you know we could lick your yarn-breaking, puff-balling, dye-streaking headaches for you with both (so to speak) hands tied behind our backs?

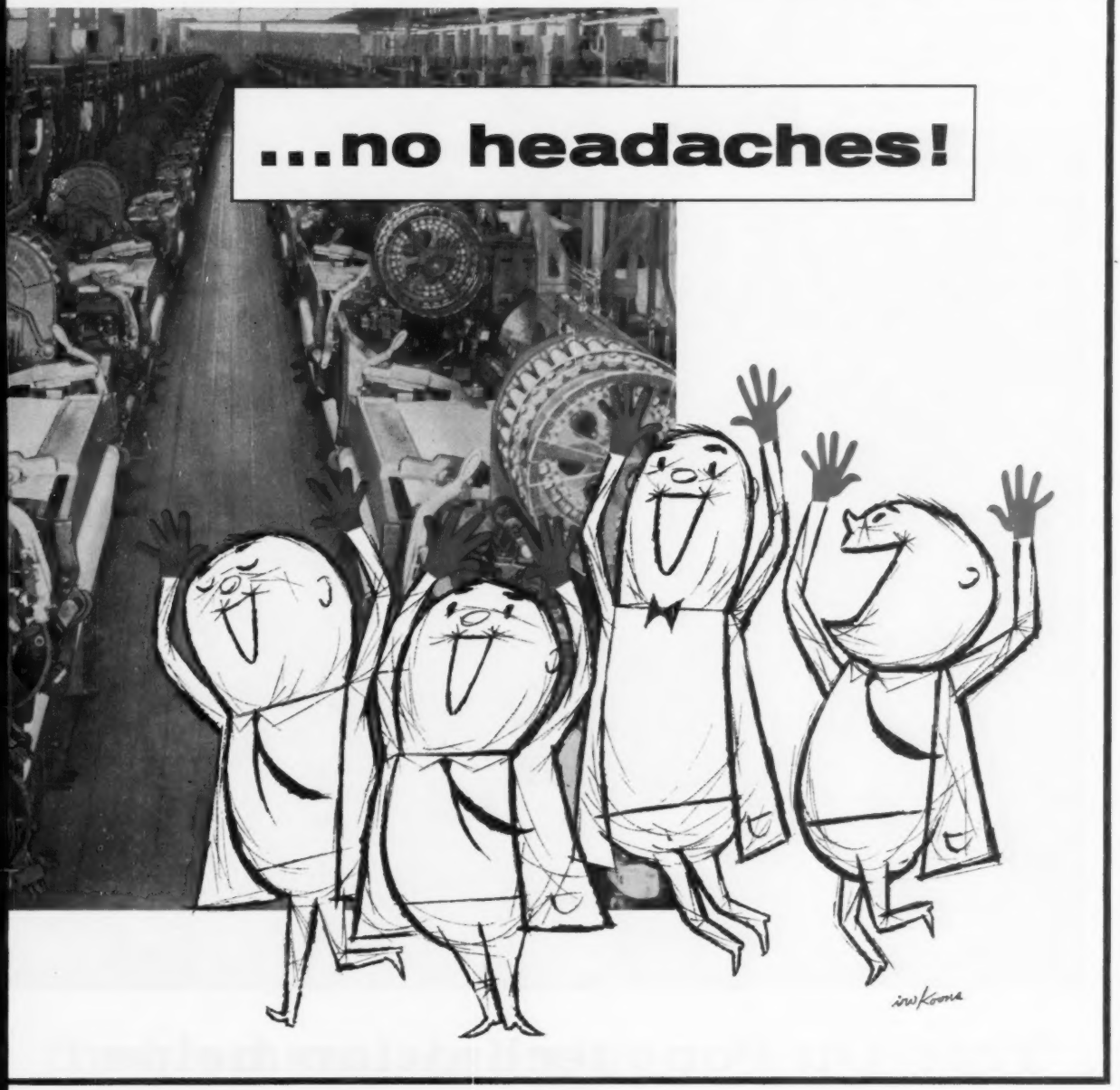
We can.

Because we process our rayon yarn with a strictly hands-off policy!

I.R.C. Continuous Process Rayon is actually processed in a continuous individual thread treatment . . . goes from spin-bath to bobbin without once being touched by anybody's hands!

That means there's no chance whatever of your getting the yarn damages caused by multiple handling, as in ordinary rayon processes. And that means we virtually eliminate the breaks, the puff-balls, the lack of uniformity that give you fabric "seconds" headaches!

We'd like you to see the process at our famous Painesville, Ohio plant. Barring that, why not have us come to see you, at yours?



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Cleveland, Ohio

Producers of Continuous Process Rayon Yarns
and Tyron® Cord for Tires
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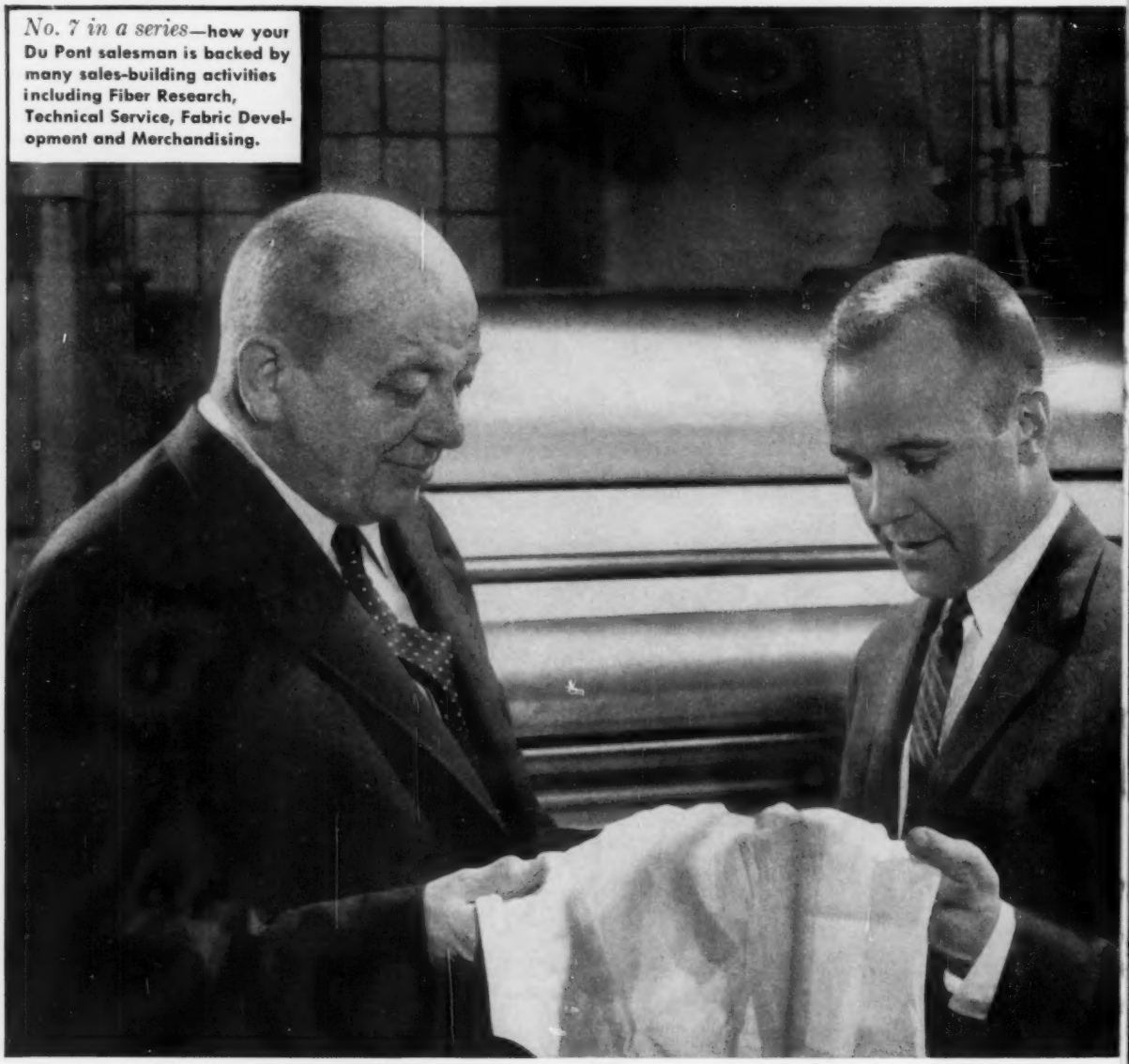
IRC CONTINUOUS PROCESS RAYON COSTS NO MORE...SAVES YOU PLENTY
BECAUSE IT'S PERFECT INCH BY INCH . . . UNIFORM MILE AFTER MILE!

No. 7 in a series—how your Du Pont salesman is backed by many sales-building activities including Fiber Research, Technical Service, Fabric Development and Merchandising.



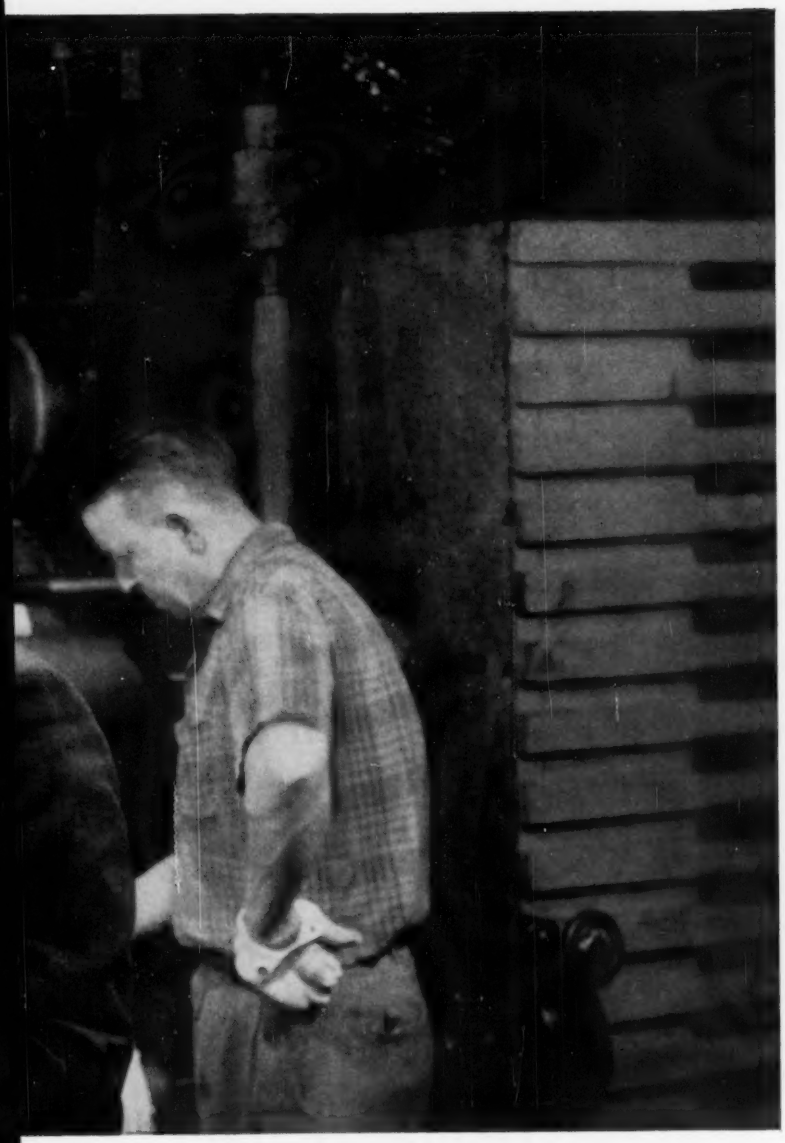
This Du Pont technician helped for finishing nylon

At left, Ralph MacIntyre, President of Joseph Bancroft & Sons Co., Inc., is seen talking with "Dutch" Sturtevant, Du Pont Technical Service representative. They're discussing a new and interesting method of finishing nylon tricot. It's a technique that may have far-reaching effects.

Developed in Du Pont's Chestnut Run Textile Research Laboratory (and made available to the tricot and lingerie industries), the process utilizes the familiar Schreiner calendering machine. Pressure and temperature adjustments are key factors.

"Dutch" played an important role in the development of this new finishing technique. He was well equipped to do so. Like many of his coworkers in Du Pont's group of 125 Technical Service men, he has a background of experience that includes intimate knowledge of specific jobs

FROM RAW FIBERS TO RETAIL SALES . . .



find a new technique tricot . . .

within the textile industry . . . the actual operation of mill machinery, for example.

This is the kind of "working know-how" that qualifies these Tech Service men to assist the industry by providing real, down-to-earth help on the processing, dyeing, finishing and use of our fibers. It's the type of assistance that the industry has found helpful whenever intricate technical problems arise.

Du Pont has always believed that the market for its fibers can best be increased by providing useful assistance to all levels of the textile industry. It's through your Du Pont salesman that you, as a customer, have ready access to a range of technical and merchandising information unique in the textile industry.

Product and Process Notes from Du Pont

Calendering Nylon Tricot—A new process for finishing nylon tricot, known as Schreiner calendering, increases covering power of tricot twofold, reduces "see-through" and eliminates extra fabric weight. A single layer of calendered tricot equals two in garments requiring double fabric shadow paneling. Heavy-knit construction used for opaque outerwear can be reduced substantially in weight, while retaining excellent covering power.

The operation consists of passing nylon tricot fabric through an engraved Schreiner calender at carefully controlled temperatures and pressures. Now, thin, lightweight fabrics can be produced with a high degree of opacity, air porosity and good bursting strength. A more effective print base can be obtained. Increased cover and the improved smoothness of calendered tricot permit a clear definition of printed patterns, allow good color register and offer more opaque backgrounds.

Detailed information about Schreiner calendering is contained in Technical Information Bulletin N-95. If you'd like a copy, write E. I. du Pont de Nemours & Co. (Inc.), Sec. F., Room 5520, Nemours Building, Wilmington 98, Delaware.

Four New Color-Sealed Acetate Shades have been developed primarily for the Fall 1958 dresswear market. These are: Empire Green, Ming Green, Sultan Red and Amberglow.

In addition, a distinct new line of colors has been assembled for the home decoration and furnishings field. Color cards, fabric color blankets and yarn samples are available through your local Du Pont Regional Sales Office.

Du Pont's No. 7 Thick and Thin Rayons, formerly produced only in deniers from 100 through 450, are now available in heavier deniers to permit broader application in home-furnishings end uses. These yarns, for example, in 900, 1800, and 2700 deniers, will impart completely new styling effects to drapery and upholstery fabrics.

Technical Information Bulletins — These Bulletins contain detailed, practical information on Du Pont product and process developments. They cover fiber properties, mill processing, dyeing, finishing and fabrication. Refer to your copies frequently; they can save you time and money. To be sure you have all the Bulletins you need—check your Du Pont salesman or Technical Service representative.

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DU PONT BUILDS PROFITS FOR YOU

Arnel alert for '59!

In '58, Arnel turned up the big winner at every level—from mill to converter to cutter to consumer. Arnel made history with the giants of the industry—Cohama, Triplex, Fabrex, Folker to name only a few. Arnel triacetate racked up the orders, re-orders, promotions—it was probably the most tagged fiber of the year. And the season was spectacular for its *variety*—knits, knit effects, plains, prints, novelties, blends, sheers—*all* Arnel!

That was last year. How about '59? BIGGER!

Arnel is causing plenty of new excitement in mills right this minute. Newer textures, more unusual surfaces, more wonderful weaves, bigger performance stories are brewing *now.*

If last year means anything, and any mill man knows it means everything, the fiber most likely to succeed *has* to be ARNEL!

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ARNEL*

*This is the official Arnel symbol—evidence that this fabric of this new triacetate fiber has been pre-tested for performance claimed.

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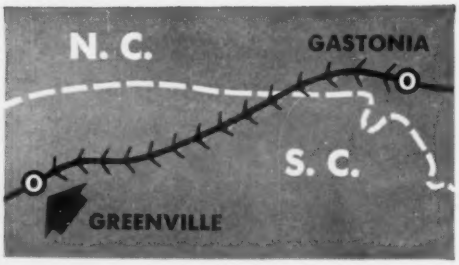
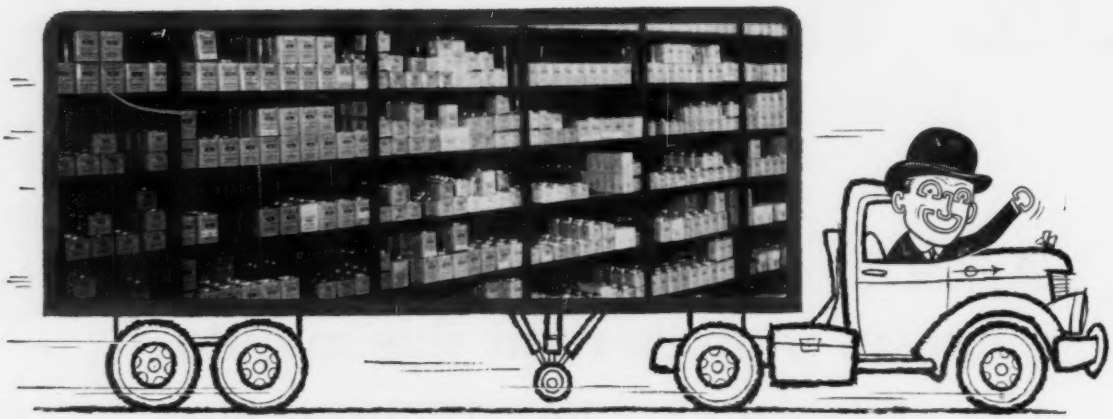
MOVED TO GREENVILLE

for better-than-ever Victor service





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Victor Ring Traveler's Southern office and stockroom, formerly at 914-916 East Franklin Ave., Gastonia, N. C., has been moved to Whitehorse Road, Greenville, S. C.

The new location affords every advantage required to meet increasing needs for Victor Travelers by mills throughout the Southern textile production area. It provides ample space for the major expansion of stockroom facilities. It will also permit improvements in office operations planned to expedite order-handling and delivery.

The new office will serve as headquarters for Victor's Southern Sales Manager, Walter L. Hudson, and Victor's staff of Southern Service Engineers, who will continue to serve their present contacts.

Again, Victor makes the move required to "keep a step ahead" of growing demands. You can depend on Victor for the finest in travelers and for better-than-ever service to keep your spinning and twisting "a step ahead" — in production rates, in yarn quality, in operating economy.

Visit us at the
SOUTHERN TEXTILE EXPOSITION, Greenville, Oct. 6-10.

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HARTEX SOFTENER DW

A 100%-active liquid cationic softener combining high softening power with high resistance to yellowing and minimum effect on shades. Applicable by exhaustion to all natural and synthetic fibers.

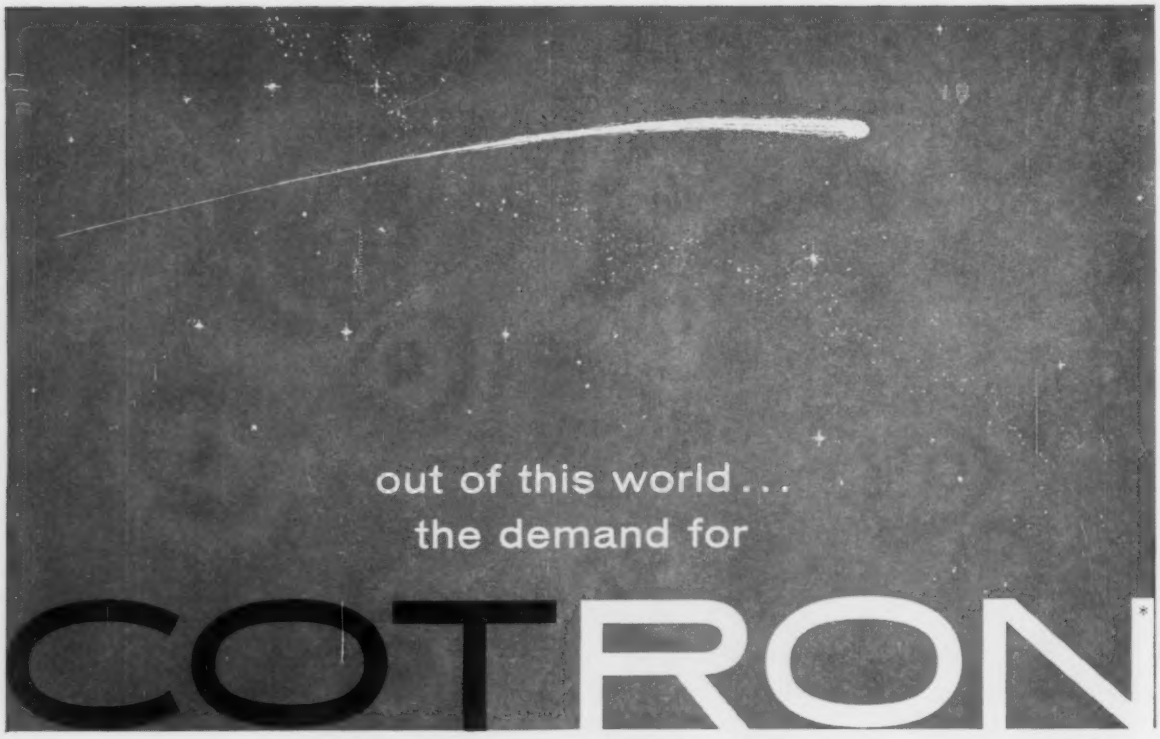
For samples and literature, write to

the Hart Products Corporation

1440 BROADWAY, NEW YORK 18, N. Y.

Works and Laboratories, Jersey City, N. J.

Hart Products Company of Canada, Ltd., Guelph, Ontario



Investigate COTRON fabrics, the new family of fabrics made of cotton and AVISCO® rayon and you'll see the REASONS are OBVIOUS!

• Richer Lustre • More Luxurious Hand • Brighter Colors
• Better Drape • Whiter Goods • Improved Light Fastness
• Better Definition of Print Pattern

. . . and here are two more reasons—but just as important:

Resinated COTRON compared to resinated all-cotton fabrics shows

• Greater strength after repeated laundering
• Marked improvement in strength retention after repeated laundering with chlorine bleach

The American Viscose Corporation is planning big 4-color, double-spread national magazine ads, trade ads, complete department and specialty store promotions, window and in-store displays, dealer mat ads, statement inserts—*the whole works!*

This program is fast bringing *substantial* results. People everywhere are getting to know about COTRON so well they're already asking for goods tagged with the COTRON tag. Get "on the blend wagon"—cash in on the demand for COTRON fabrics *now!*

The American Viscose Corporation is more than pleased to make available to you its Technical & Textile Service Department's vast store of information, experience and know-how regarding COTRON. A trained, highly competent technical representative is at hand at all times, ready to assist you with any COTRON fabric applications.

*Trademark of American Viscose Corporation for a fabric of cotton and AVISCO® rayon.

AMERICAN VISCOSE CORPORATION
350 Fifth Avenue, New York 1, N. Y.

AVISCO®

Cibacron® Dyes

New "Firsts" for CIBACRON Dyes
prove that versatility as well as unique color brilliance make these first cellulosic fiber reactive dyes first choice for fast, simple printing and dyeing...

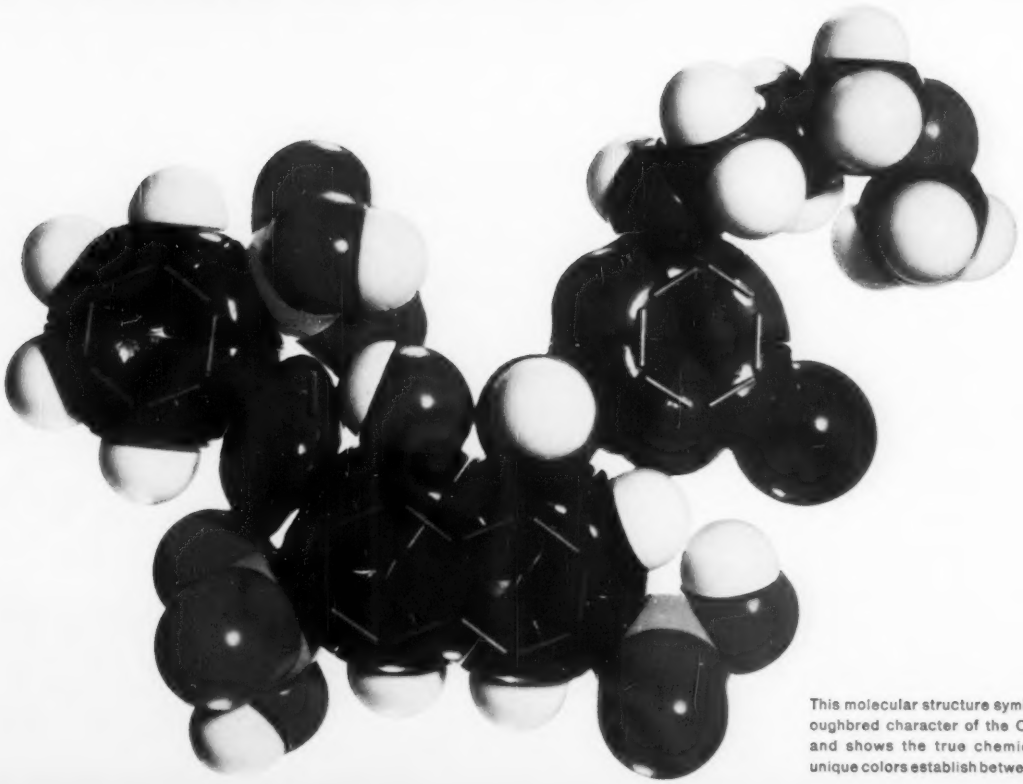
Emulsion Printing* with CIBACRON Dyes
replaces conventional gum system...
delivers higher color yield, less color wash-down...
delivers cleaner, sharper prints...
delivers greater printing speed.

*CIBA, STEIN HALL development on cellulosic fibers using VISCOBOND, (Trade Mark Stein Hall), and Emulsifier SH, (Patented)

Dyeing of Wool with CIBACRON Dyes
by simple procedure delivers the typically brilliant CIBACRON shades with fastness unobtainable using conventional wool dyes.

New CIBACRON Black BG
delivers outstanding fastness to cross-dyeing... now makes possible deep rich shades such as Bordeaux, Bottle Green, Charcoal, rich Browns, Wine and Navy Blue shades.

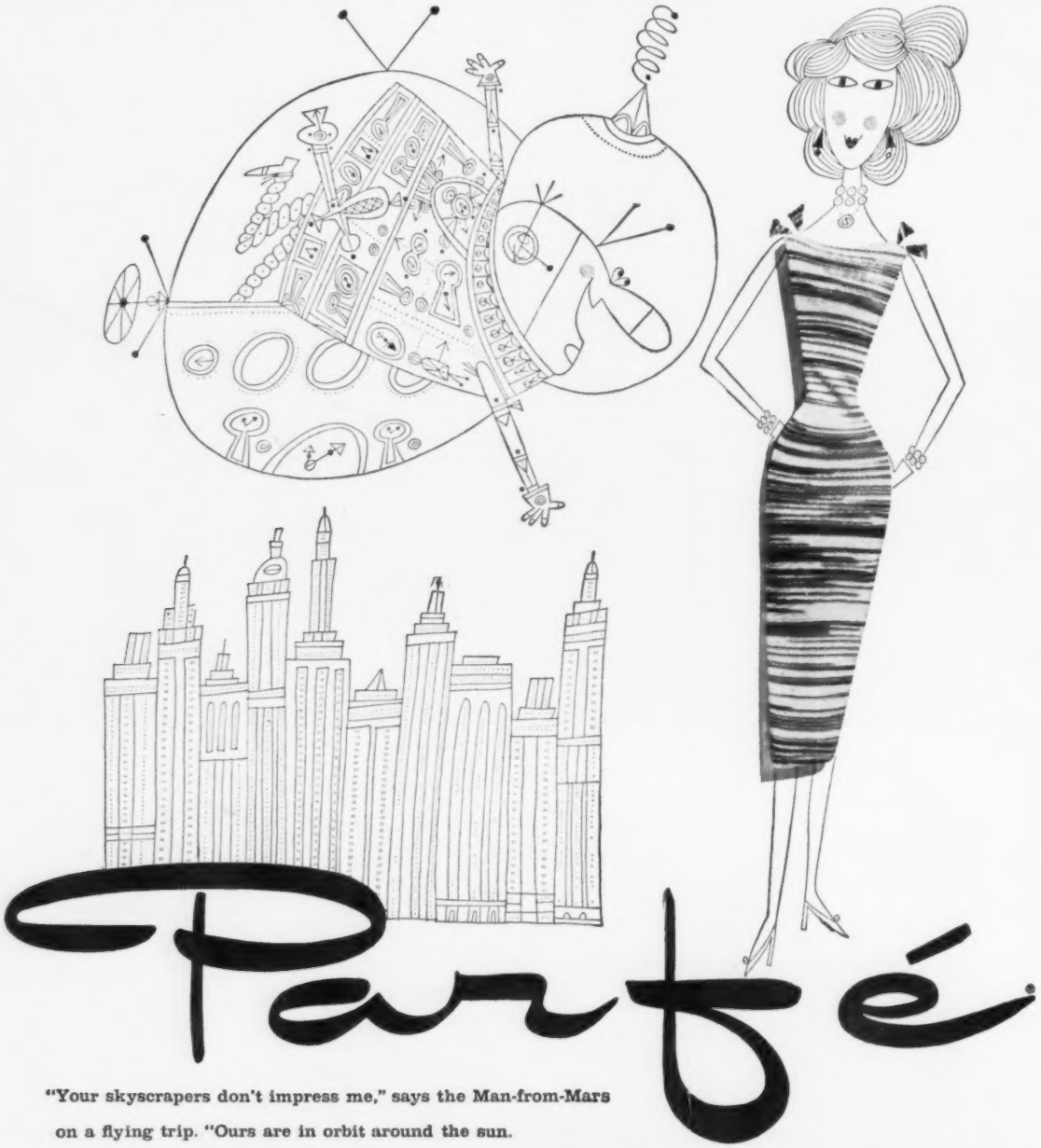
CIBA



This molecular structure symbolizes the thoroughbred character of the CIBACRON Dyes and shows the true chemical bond these unique colors establish between dye and fiber.

CIBA Company Inc.
627 Greenwich Street, New York 14, N. Y.

THE MAN-FROM-MARS DISCOVERS THE WONDERS OF THE EARTH



Parfé

"Your skyscrapers don't impress me," says the Man-from-Mars on a flying trip. "Ours are in orbit around the sun.

But you could have knocked me over with an ICBM when I saw the new Parfé yarn! What Parfé would do to uplift the new Mars sack look, should happen to your own missile program!"

Parfé is Bemberg's proud new achievement! Earth-shattering is the word (and soon perhaps, Mars-shattering, too!).

Color is spaced intermittently along the entire length of Parfé yarn, introducing a new color dimension in fashion. It comes in two effects: a long span of color with wide space intervals and a short span of color with narrow space intervals. And this color is as fast to sun, laundering, and atmospheric conditions as solution-dyed shades.

Parfé can be used alone, in combination with other yarns, with Bemberg novelty yarns, overdyed, or overprinted. Feature it in dress, blouse, and sportswear fabrics (woven or knitted) and in decorative fabrics for the home.

Call LExington 2-3520 . . . and see the yarn wonder of the world!

Bemberg®
ARISTOCRAT® OF RAYON YARN

"PARFÉ" IS AMERICAN BEMBERG'S TRADE NAME FOR CUPRAMMONIUM RAYON YARN.

AMERICAN BEMBERG · Main Office: 261 Fifth Avenue, New York 16, N. Y. · Plant: Elizabethton, Tennessee

Speaking of Softness...

whichever you choose, you're right – when you specify

POLY-IONIC SOFTENERS

for cottons and synthetics!

POLY-IONIC N
(NON-IONIC)

produces a soft, full hand with exceptional drape.
non-chlorine retentive — does not yellow white fabrics even at elevated temperatures
— miscible with resins and most other finishes

POLY-IONIC C
(CATIONIC)

for greater surface lubrication

POLY-IONIC A
(ANIONIC)

for a softer and dryer hand

ALL THREE POLY-IONIC Softeners give cottons and synthetics a FULL and PLEASING hand, with these additional benefits!

- **better crease recovery, better abrasion resistance**
- **surface lubrication that reduces wear**
- **excellent inter-fiber lubrication for better sewability to reduce needle cutting**
- **increased tensile and tear strength**
- **resistance to high temperature curing and ironing**
- **good durability to washing when used in resin bath**

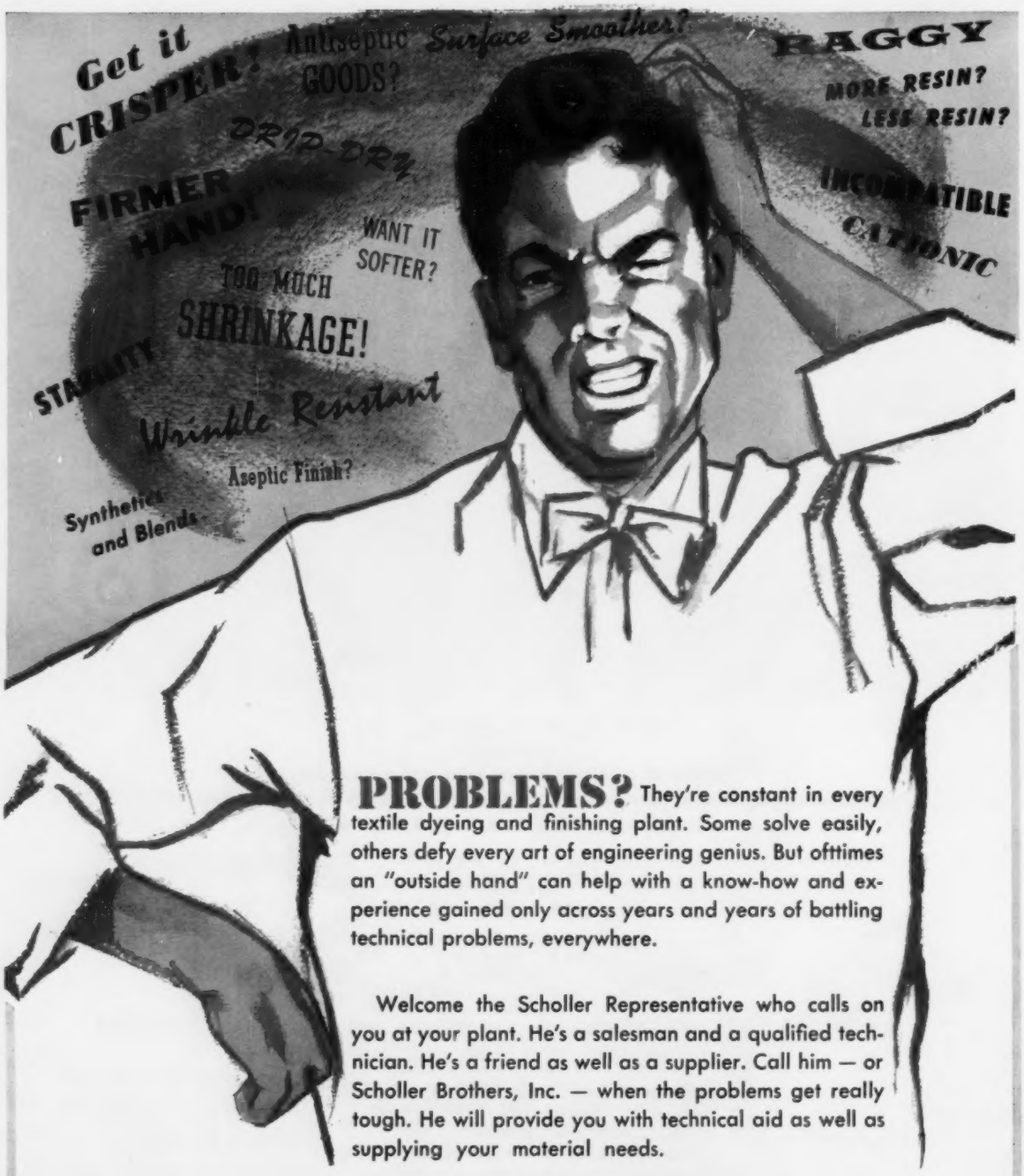
POLY-IONIC Softeners are polyethylene emulsions, compatible with thermo-setting resins. They disperse readily in the bath and apply easily on a padder.

The three types — Non-ionic, Cationic and Anionic — offer you a range of outstanding softeners to meet your specific needs.

Write for Technical Bulletin and samples

ARKANSAS CO., INC. AC INC. NEWARK, NEW JERSEY

Serving the Textile Industry for over 55 Years



PROBLEMS? They're constant in every textile dyeing and finishing plant. Some solve easily, others defy every art of engineering genius. But ofttimes an "outside hand" can help with a know-how and experience gained only across years and years of battling technical problems, everywhere.

Welcome the Scholler Representative who calls on you at your plant. He's a salesman and a qualified technician. He's a friend as well as a supplier. Call him — or Scholler Brothers, Inc. — when the problems get really tough. He will provide you with technical aid as well as supplying your material needs.

SCHOLLER BROTHERS, INC.

Collins & Westmoreland Sts., Philadelphia 34, Penna.

IN CANADA: SCHOLLER BROTHERS, LTD., St. Catharines, Ontario.

PIONEERS IN THE BETTER FINISHES THAT MAKE THE BETTER FABRICS...SINCE 1907

A BRAND-NEW NAME IN WASH & WEAR

BONUS™

COTTONS ENRICHED WITH RAYON BY ENKA

In wash-and-wear cottons your customer is chiefly concerned with long wear-life and ease-of-care. Performance is often a problem with resinated all-cotton fabrics in the volume price range. Standard volume all-cotton constructions tend to lose their strength in the resin finishing process, and "beefing-up" the all-cotton construction is not the answer.

The answer lies in an entirely new concept for all wash-and-wear fabrics—BONUS cottons *enriched* with rayon.

American Enka, in conjunction with other fiber producers, has run extensive laboratory tests on an 80-square blend of ⅔ cotton enriched with ⅓ rayon. These tests have shown that when this blend is properly handled and finished, Enka Rayon accentuates the best qualities of both fibers and minimizes the loss of strength which results when resin finishes are applied.

BONUS fabrics—of ⅔ cotton *enriched* with ⅓ rayon by Enka—have greater strength after finishing and repeated laundering than resin-treated all-cotton fabrics, yet are priced right for the traditional volume market. Moreover, BONUS cottons enriched with rayon offer a more luxurious hand, a silky firmness, and a better drape. White goods are whiter, colors stay brighter—longer. Patterns define themselves sharply. Give your wash-and-wear business a new profit outlook . . . with this new BONUS blend. Just call Mr. William B. Shepard at American Enka's Rayon Staple Sales Department at OXford 7-6141, extension 35, for the whole story of BONUS cottons.

AMERICAN ENKA CORPORATION

PRODUCERS OF JETSPUN® SOLUTION-DYED RAYON • SKYLOFT® LOFTED FILAMENT RAYON • FILAMENT AND STAPLE RAYON • FILAMENT AND STAPLE NYLON
530 Fifth Avenue, New York 36, N. Y. • 871 McCallie Avenue, Chattanooga, Tenn. • 428 Jefferson Standard Building, Greensboro, N. C. • 2001 Industrial Bank Building, Providence, R. I.

SALES PICK-UP IN A BATH

SCOUR and DYE
with one product in just one bath

Stimulon

STIMULON's one-product, one-bath technique drastically reduces nylon hosiery and knit fabric processing time and cost. Even heavily soiled fibers can be scoured and dyed in a single operation with Fancourt's new heavy duty detergent and dyeing assistant.

STIMULON effectively removes soil, waxes and oils from nylon, orlon, Fluflon*, Ban-Lon**, and mixed fibers.

STIMULON assures clean, even dyeing with good color unions by assisting dyestuffs to disperse, penetrate and level.

STIMULON cuts costs, increases efficiency and builds profits.

For complete details on **STIMULON,** *call or write Fancourt today.*

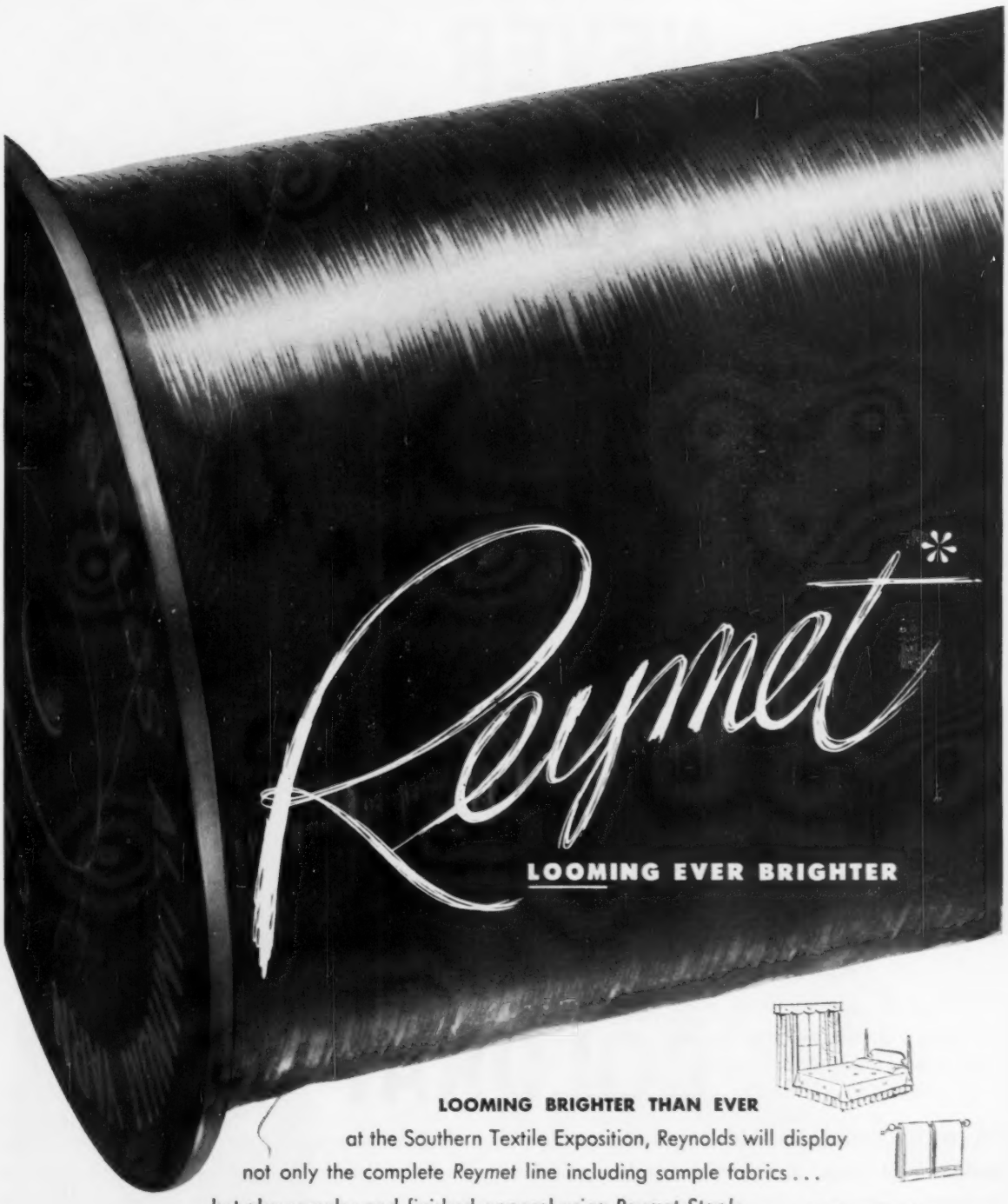
W. F. FANCOURT CO.

518 SOUTH DELAWARE AVE., PHILADELPHIA 47, PA.

SOLVING FINISHING PROBLEMS SINCE 1904

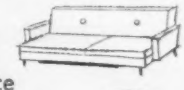
SOUTHERN OFFICE—309 EAST DAVIS ST., BURLINGTON, N. C.
CANADIAN OFFICE—CHEMTEX PRODUCTS, LTD.
49 DENSLEY AVE., TORONTO 15, ONT.

**Trademark of Universal Winding Co.,*
***Trademark of Jos. Bancroft & Sons Co.*



LOOMING BRIGHTER THAN EVER

at the Southern Textile Exposition, Reynolds will display not only the complete *Reymet* line including sample fabrics . . . but also samples and finished apparel using *Reymet Staple*. Remember, among the major producers of aluminum, only Reynolds manufactures aluminum yarn. For a dependable source of dependable supply, call any Reynolds sales office. Or write to Reynolds Metals Company, Richmond 18, Va.



AND BE SURE TO SEE US AT BOOTH 484!

*

Trade-mark Registered for **REYNOLDS ALUMINUM YARN**

NEVER SAY DYE

SAY BLEND WITH COURTAULDS COLORAY®

TO COLOR COTTON FABRIC the new-fashioned way, you blend with Courtaulds' color fiber Coloray. Result: the most colorfast fabrics in the world! No fading problems even for automatic wash-and-wear. No dyeing process whatsoever! Beautiful color comes with Coloray and stays and stays in blends with natural fibers like cotton and all synthetics too. Beyond wonderful color, what does Coloray do for cotton? Makes it longer-wearing, finer-looking. Gives it fresh new styling. Insures the kind of performance that calls for encores from customers. From every angle, it's smart to blend with Coloray!

COURTAULDS COLORAY®

Solution-dyed rayon fiber with Captive Color..."Can't Escape!"

For further information on new fabric development and Coloray blends now available, write
COURTAULDS (ALABAMA) INC., *first name in man-made fiber, first name in solution-dyeing*, 600 Fifth Ave., New York 20 • Greensboro, N.C. • LeMoyne Plant, Mobile, Alabama

BAKER PLATINUM DIVISION*

FOR PRODUCING SYNTHETIC FIBERS

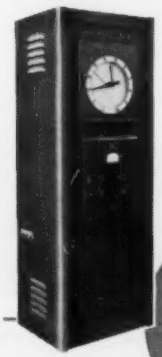
SPINNERETTES . . . for synthetic fibers . . . unique in industrial production. Delicate, precision units that are the foundation of an entire manufacturing process. Made of purest metals, under strictest scientific control.

Baker Platinum Division, 113 Astor Street, Newark 2, N. J.

FOR LABORATORIES

LABORATORY WARE . . . a wide variety of forms and sizes for chemical and physical purposes, made of platinum or any desired alloy. Line includes crucibles, reshapers, triangles, dishes, electrodes, anodes and cathodes.

Baker Platinum Division, 113 Astor Street, Newark 2, N. J.

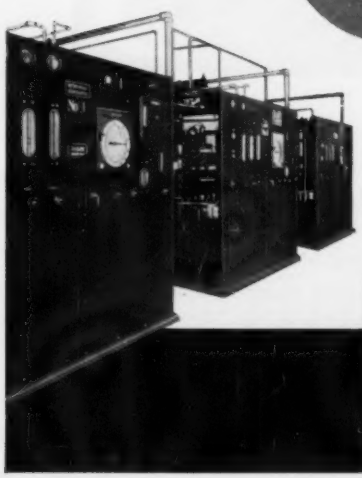


CHEMICAL DIVISION

FOR INDICATION OF O_2 OR H_2

MINOXO® INDICATOR . . . measures traces of molecular oxygen in other gases—from 1 to 10 parts per million, and from 1 to 100 PPM. High sensitivity and rapid speed of response enable it to be used for laboratory investigation and production quality control.

Chemical Division, 113 Astor Street, Newark 2, N. J.



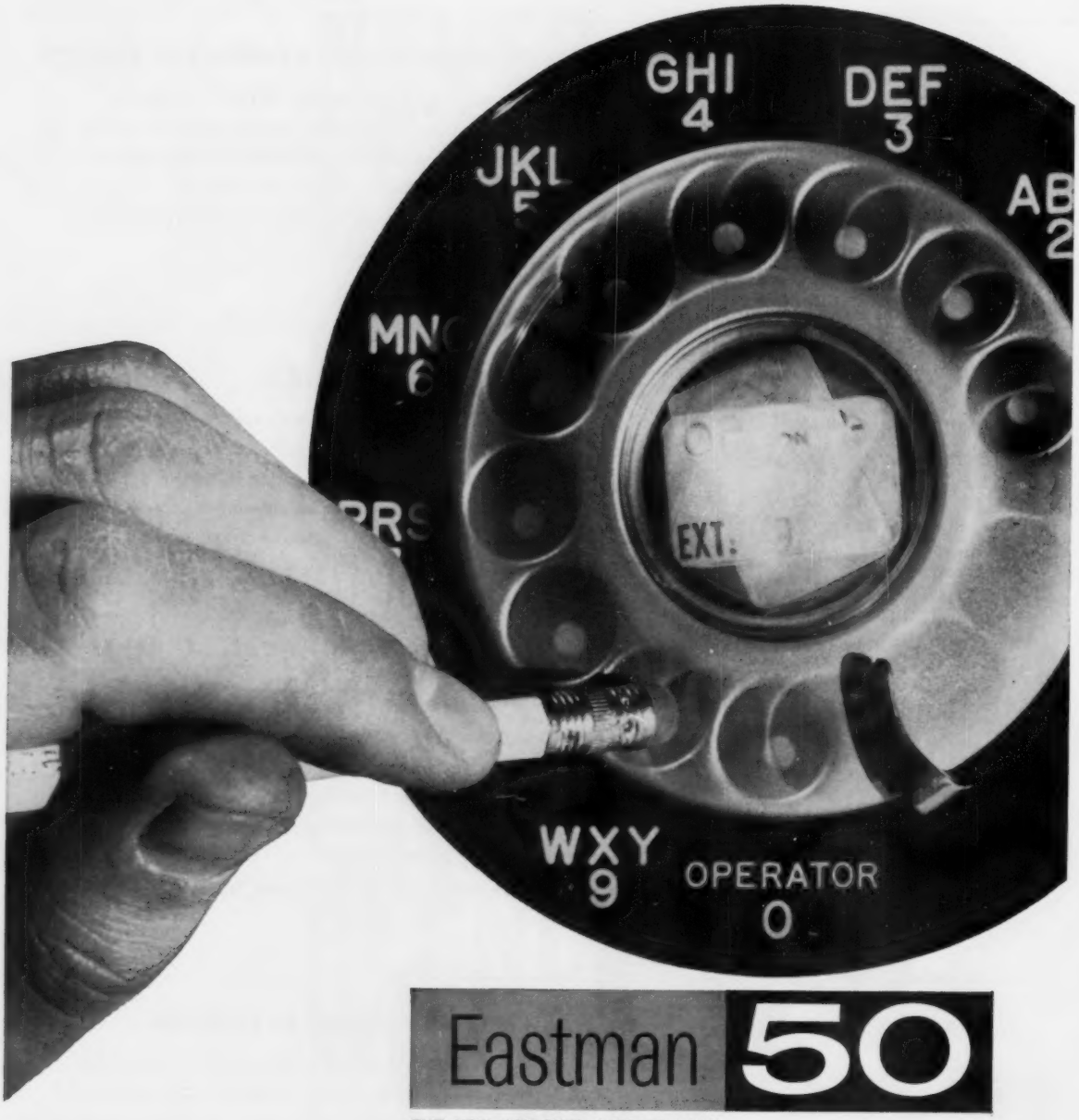
FOR PRODUCING NITROGEN

NITRONEAL® GAS GENERATOR . . . with a controllable hydrogen content—produces oxygen-free gas consisting of nitrogen, hydrogen and water vapor. Hydrogen content can be varied and maintained as desired between 0.5% and 25%.

Chemical Division, 113 Astor Street, Newark 2, N. J.

ENGELHARD INDUSTRIES, INC.

113 ASTOR STREET
NEWARK 2, NEW JERSEY



Eastman 50

THE NEW IMPROVED ACETATE YARN

A busy number with mills and converters

Here's why. A warp of Eastman 50 adds new luxury to drapery fabrics. Try it and see. There's a fuller, richer look, a new lushness and drapability. One reason is the added covering power of Eastman's improved acetate yarn. And, of course, an acetate warp gives better dimensional stability... no changes in length with changes in humidity when Eastman 50 is on the job.

Available in bright and dull luster and in Chromspun® black... same deniers, twists, put-ups and price as regular acetate yarns. Ask your nearest Eastman representative.

EASTMAN CHEMICAL PRODUCTS, INC., SUBSIDIARY OF EASTMAN KODAK COMPANY, 260 MADISON AVENUE, NEW YORK 16, N.Y.

Ring Twisting or Uptwisting . . . WHITIN has the Twister for you!

To provide precisely the right twister for maximum production, highest quality twisting, on the largest practical package to secure knot-free yarns, Whitin manufactures 49 models of ring and uptwisters. Whitin can supply the type and model most suitable for any twisting need for natural and synthetic fibers.

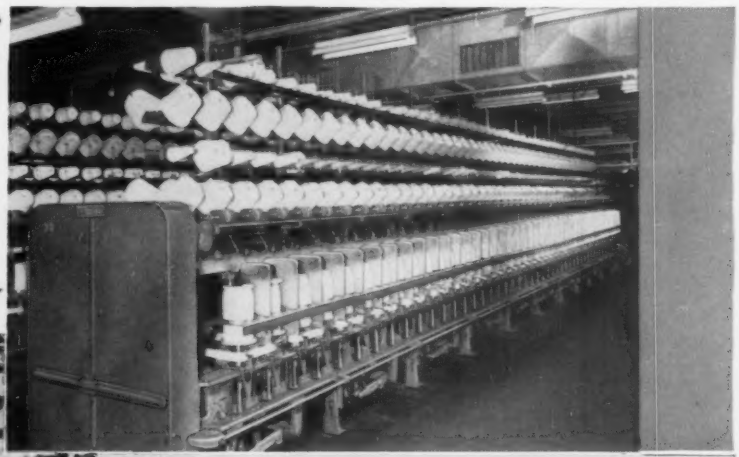
The machines illustrated here are widely used by leading mills in the production of coarse yarns for carpets and tufted rugs; they have also made outstanding records in the tire cord and paper yarn industries. All Whitin Twisters and accessory machines are advanced in design, rigid in construction and precision built.

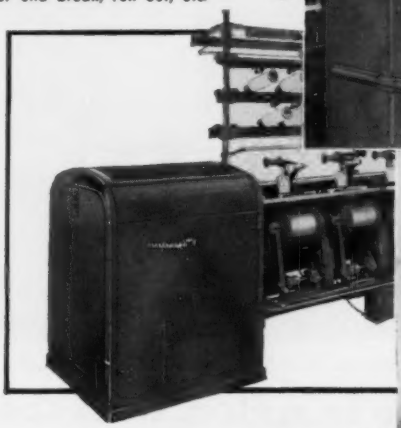
COMMODORE* RING TWISTER

For wet or dry twisting, the Commodore is available in gauges from 7" - 10", with rings ranging from 5½" - 8½" and, normally, with 92 or more spindles. Package weights are from 7.0 - 11.0 lbs. of knot-free plied yarn.

SPOOLMATIC* REDRAW DOUBLER with Electronic Slub Detectors

For winding one, two or more ends at 100 - 300 yds./min., package up to 9.0 lbs. This machine provides new scope for tufted rug or carpet yarns. Exclusive electronic slub detectors stop each winding position for end break, run out, etc.





CABLE-KING* UPTWISTER

Produces several types of take-up packages: headless, parallel-wound on paper tube; straight spool wind on double head bobbin; or cone wound on paper tube. Packages up to 9.0 lbs. and speeds up to 5250 RPM. Ideal for cabling nylon tire cord and other heavy industrial yarns.

Whitin CABLE-KING UPTWISTER is available in lengths of 60 - 120 spindles, 11" gauge.

*Trade mark

For complete information, ask your Whitin representative — or write direct to us.

Whitin MACHINE WORKS

WHITINSVILLE, MASSACHUSETTS

CHARLOTTE, N. C. • GREENSBORO, N. C. • ATLANTA, GA. • SPARTANBURG, S. C. • DEXTER, ME.

sounds a new note in nylon with these modern yarns for carpet and upholstery

Whether you loop, crimp, coil or curl them, Caprolan heavy yarns are the progressive mill's answer to the demands of modern styling. New textures in white white yarns which may be dyed to colors of striking depth and brilliance are the keys to lasting beauty and long wear in both carpet and upholstery. The strength of these outstanding nylon filament yarns, plus their much-wanted bloom characteristics are economy advantages a textile man finds hard to overlook.

For more information, call or write us today about textured yarns of Caprolan.

Fiber Sales & Service Allied Chemical *National Aniline Division*

261 Madison Avenue, New York 16, N.Y.

*Trade Mark—Allied Chemical's Polyamide Fiber

MODERN TEXTILES
Magazine

Publisher's Viewpoint

Our industry's biggest need: simple courage

The most frequent wail of complaint heard in textile circles is that prices are too low to allow for reasonable profit, or even cover the cost of producing goods or services. Spinners of yarn and weavers of gray goods, cry that they are forced to sell at profitless prices. Dyers and finishers make the same lament.

When asked why they must sell their goods or the services of their plants at prices that permit them no profit, they invariably blame their competition. "I want to charge a fair price for my cloth or for the dyeing and finishing work provided by my plant, but if I do "I'll lose the business. My competitors will underbid me."

"He Made Me Do It"

The same cry about the wickedness of competition is raised when the question of quality comes up. "I want to weave cloth with a sufficient number of ends and picks to give it the strength to do the job it is intended for," says the weaver. "But if I do, I lose out to that scoundrel who takes out a few picks, weaves a sleazy piece of goods and undersells me by a cent or two a yard."

And the dyer makes the same excuse. "I hate to use low-cost dyes that fade in washing, so-called wash-and-wear finishes that embrittle a fabric causing it to wear out faster, or turn yellow from chlorine retention in laundering. But what can I do? If I quote a price predicated on fast dyes and genuinely effective wash-and-wear resins, my competitor, who is less scrupulous than I, will get the order."

And so it goes. Meanwhile, consumer complaints multiply, standards deteriorate, mill earnings dwindle, and deaths of finishing plants continue at a depressing rate.

Courage is the Cure

It seems to us that there is no convincing reason for this sad state of affairs other than the complete spinelessness of so many people in our industry. What is needed is more courage. What is needed is the backbone to refuse to compete on the gutter level of product deterioration. What is needed is a complete abandonment of the foolhardy policy that leads millman and dyer to say in effect: "if my competitor can make the product poorer and sell it for less, I shall outsmart him by making it still poorer and sell it thus for still less."

What is needed is the commonsense courage to realize that the path of product deterioration in an effort to quote still lower prices leads to ruin. Millmen and dyers must face up to the fact that consumers want reliable products; that there are plenty of converters, cutters, and retailers who see their best chances of success in giving consumers what they want. Once they have grasped this unavoidable truth, they will feel better. They will see the "lower-the-quality-in-order-to-lower-the-price" boys for what they are—operators who have no future.

Courage will do it: simple, unadulterated courage to stick to one's beliefs that the only job worth doing is a job that is well done. And the ability to turn away from addiction to the destructive narcotic of price competition, painful as may be the "withdrawal symptoms," will result, in the long run, in sounder economic health.

Let those who doubt this look around them in the industry. Who in the long run does well? Not the chiselers; not those who continually pressure for lower prices, regardless of quality.

The mills, the dyers, and the converters who prosper over the years are those who, in the realistic context of their chosen market, offer reliable, high quality fabrics, and reliable, high quality dyeing and finishing.

In the long run, the courageous way is the only way to survive in textiles as in any business.

A. H. McCullough

OUTLOOK

in textile marketing

By the Editors

In coming months American consumers will be thoroughly alerted to the good things available in man-made fiber fabrics.

Advertising efforts bigger and more costly than any before attempted are being readied by some man-made fiber producers. Network TV involving the most popular shows on the air will be used by Du Pont and Chemstrand.

Chemstrand, a pioneer in the lavish expenditure for network TV entertainment, will be one of the major sponsors of the Perry Como Show on NBC-TV, generally regarded as one of the most successful video entertainments. Commercials for the whole range of increasing end uses for Chemstrand nylon and the company's Acrilan will be heard three weeks out of every four on this weekly Saturday night musical.

Among the end uses of Chemstrand products about which the audience of 35 million persons will be told (and, it is hoped, sold) will be nylon in tires; nylon in colored lingerie and stockings; Acrilan in carpets, in blankets and in wash-wear garments.

Du Pont, which generally does things bigger in advertising than anyone else making fibers, is sponsoring not one but four network TV shows.

Each has won huge followings among TV viewers (which means virtually everyone in the United States.) The four shows are Steve Allen, Dave Garroway, Jack Paar and Doug Edward's news broadcast. On radio, Du Pont will also be a sponsor of that rugged old salesman, Arthur Godfrey.

Along with these massive ventures into the potent and terribly expensive medium of TV Du Pont and Chemstrand will advertise lavishly in a newstand full of consumer magazines. In this form of advertising they will, of course, be joined by virtually all other makers of man-made fibers.

Meanwhile, Celanese, which also believes in big promotional efforts, will continue its unique approach of "target promotions."

The basic idea here is to shape a promotional plan for an entire family of Celanese fabrics and then to have it "previewed" by leading retail stores throughout the country.

The stores are thus given ample opportunity for point-of-sale participation with lavish help from Celanese. Once the store participation is worked out, Celanese "breaks" the promotion to consumers and follows through with concentrated advertising for a period of one or two months.

Normally, Celanese stages one target promotion in the spring and two in the fall of each year. The upcoming 1958 fall apparel promotion is called "Who Is She?" It is built around that important consumer, the American woman who lives and makes a home for her family in the suburbs. Major aim of the promotion is to arouse greater clothes consciousness in suburban women. To do this, the preparatory effort, started months ago, worked to stimulate American designers and garment manufacturers to create apparel (using Celanese fibers, of course) that would fit the needs and excite the fashion interest of women who live in suburbs everywhere.

Groundwork efforts for the consumer advertising campaign included novel panel discussion clinics in New York, Los Angeles and Dallas. These panels were made up of representative middle-income housewives who freely discussed their clothing needs and desires, as well as their clothing dislikes, with an audience of designers and garment makers.

This month the consumer phase of the promotion will begin with 24 color advertisements in magazines, newspaper supplements and pattern books.

The second Celanese target promotion this fall is aimed at the home furnishings field.

Called "New World of Ideas" it will present as themes for decorative fabrics, designs garnered from Central and South America, by Celanese's globe-trotting artist-designers, John and Earline Brice.

A similar promotion last fall resulted in 1,274 fabrics designed and sold by 68 major manufacturers. As many as 101 stores and their branches participated in the promotion with window and interior displays plus local advertising of their own. Celanese estimates that sales of 24 million yards of fabrics are traceable to the promotion.

What does this tremendous advertising effort mean to the mill and converter? It means that he will be helped immeasurably in his toughest job—selling his fabrics at a profit.

When consumers are informed about man-made fiber fabrics by the vast advertising expenditures of the fiber producers, they will be receptive to these fabrics when they are offered them in the stores. The wave of demand thus set up will wash backward through the industry stimulating sales at every level of textile manufacturing. Who can object to this?

A banker turned mill management man has guided the Abney mill holdings to a point where, linked with Erwin Mills, they muster together a total of 700,000 spindles and 17,000 looms, all prosperously employed in making a wide range of highly regarded cottons and synthetics.

The fortunate stewardship of F. E. Grier

By the Editors

FRANCIS EBENEZER GRIER considers himself a millman, not a banker, and his achievements in the textile industry over the past 16 years would seem to bear him out. Yet it was through banking that he came to textiles; and it was his distinguished possession of the banker's qualities of wise judgment, experience in the management of money and high integrity that caused him to be literally invited to become a textile executive.

When John P. Abney of Greenwood, S. C. died in 1942 he owned controlling interests in five mills in his home state with a total of some 220,000 spindles. At that time Grier was 43 years old, and had reached a satisfying level of success as president of the Bank of Greenwood. The Abney will which devised his textile interests to his immediate family, had named the bank as one of the executors. Thus Francis E. Grier, or "Ebe" Grier, as his friends in Greenwood call him, became closely associated with the affairs of the Abney mills. Shortly thereafter, at the invitation of the Abney family, he gave up his position with the bank to devote all his time and energies to the management of the Abney textile operations.

In the 16 years that have passed since then, his management has been fortunate and fruitful. The nucleus of five mills in the Abney estate has grown during those years to become one of the great fabric manufacturing companies in the United States with some 14 mills mustering a total productive capacity of half-a-million spindles and 12,000 looms. Along with these mills, there are two finishing plants and ownership of the new and modern Southeastern Loom & Machine Works in Greenwood. Abney mills' weight in the textile market is also considerably augmented by its ownership of a controlling interest in Erwin Mills which has its headquarters at Durham, N. C. Erwin itself is a substantial mill organization operating ten plants with combined spindles numbering 235,000 and with 5,000 looms. The close connection between Abney and Erwin is demonstrated by the fact that Grier, who is president of Abney, serves as chairman of the board of Erwin.

Bigness Has Advantages

In the American textile manufacturing scene, increasingly an area dominated by bigger and bigger mill aggregations, the Abney-Erwin combination, operating a total of 735,000 spindles and 17,000 looms is indeed a giant able to maintain its own place in the company of giants. Among the advantages of bigness in textiles, is the ability to produce a diversity of fabrics and thus avoid dependence on any one narrow range of goods in a fickle and unpredictable market. This diversity the Abney-Erwin combination decidedly has, producing a wide range of cotton and synthetic fabrics.

Abney mills produces broadcloths and printcloths, curtain goods and drapery fabrics, filament acetates and rayons, cotton poplins and spun rayon cloths in a variety of constructions. Abney is strongly interested in the possibilities of cotton-rayon blend cloths and has already gained experience with this blend in producing substantial yardages for some of its converter customers. Erwin Mills is strong in sheets and pillow cases, in denims for both work and leisure wear, and in work cloth twills.

The strength inherent in the bigness of the Abney-Erwin combination is pointed up by F. E. Grier in another connection, the crucially important one of raw material procurement. He remarked recently that the two mill groups together buy about 270,000 bales of cotton a year—more than three per cent of the 8 million or so bales bought annually by American mills. Cotton purchasing power of this magnitude, Grier says, makes the Abney-Erwin group "an important factor in the cotton market."

Gives Credit to Others

A modest, and indeed reticent man, "Ebe" Grier emphatically disclaims anything more than a modest share of the credit for the steady march forward of the Abney textile interests from 220,000 spindles in 1942 when he took charge to their present substantial productive power. But the evidence of prosperous growth is there for all to see; in Greenwood and throughout the textile industry where the rise of the Abney Mills has been studied keenly, it is widely agreed that Abney in 1942 obtained the services of a man of remarkable business ability, a man whose broad capacities and energies have been largely responsible for the remarkable growth of the business in his charge.

Francis E. Grier was born in the little hamlet in upland South Carolina bearing the engaging name of Due West. The town is the home of Erskine College maintained by the Associate Reformed Presbyterian Church, a religious group strong in that section of South Carolina. Grier's family had long been closely associated with the A.R.P. Church and Erskine. Two of his great grandparents are enrolled in the church's history among its founding fathers. His grandfather, Robert Calvin Grier, and his uncle, William M. Grier, were, in their time, presidents of the college, a post more recently held for 30 years by Grier's older brother, Dr. R. C. Grier. Grier's father, Paul L. Grier, served a lifetime as professor of mathematics at Erskine.

Banker's Progress

When Ebe Grier graduated from Erskine in 1920, with a bachelor of arts degree, he found work as a bookkeeper in the National Union Bank in Rock Hill, S. C. In the succeeding years, he worked at banking with the exception of three years during which he served as business manager and treasurer of Erskine.

In 1933, his reputation as an able banker was substantial enough to bring him an offer of the presidency of the Bank of Greenwood. He accepted the post and first reported for work during the difficult days of the bank holiday of March, 1933. Some nine years later, in 1942, the Bank of Greenwood was doing well under his management. Grier was solidly established in the South's banking circles, having served as president of the South Carolina's Bankers' Association; indeed, he was widely regarded as a sound man marked for even bigger things in banking.

To give up his hard-won position in the conservative world of money management and plunge into the uncertain and hazardous occupation of textile manufacturing was for Grier to take a most unbanker-like speculative risk on his future. It shows that even bankers are willing to take a chance—that is, if they are bankers like Ebe Grier, equipped with more business ability, ambition and imagination than are needed to run a country bank.

During the years between 1942 and 1946, Abney Mills, like the rest of the textile industry, busied itself doing the best it could for the war effort with its existing productive capacity. But in 1946, with the war economy transforming itself into a competitive civilian market, Abney began its steady progress of growth—a growth financed, Grier points out with a bankerlike sense of pride in thrift, by retained earnings.

The first step in the Abney story of growth was a move to consolidate. The Abney textile holdings, consisting of Grendel and Panola Mills in Greenwood, Anderson Cotton Mills in Anderson, S. C., and Courtenay Mill in Newry, S. C., were merged into a new corporation, The Abney Mills. Three years later in 1949 Abney acquired the controlling interest in the Brandon Corp., a company with four mills in Greenville, one in Woodruff, and a finishing plant in Travelers Rest, S. C. Brandon, and another company, Belton Mills in Belton, S. C., were merged into the Abney Mills.

Acquires Interest in Erwin

Two years later, Abney acquired by purchase principally from the Duke interests in North Carolina enough stock in Erwin Mills to give it "working control." A year later, Abney branched out in another direction. It bought the assets of Hunt Loom & Machine Works in Greenville, and moved them to a new plant in Greenwood to serve as the basis of a new wholly-owned Abney subsidiary, Southeastern Loom & Machine Works.

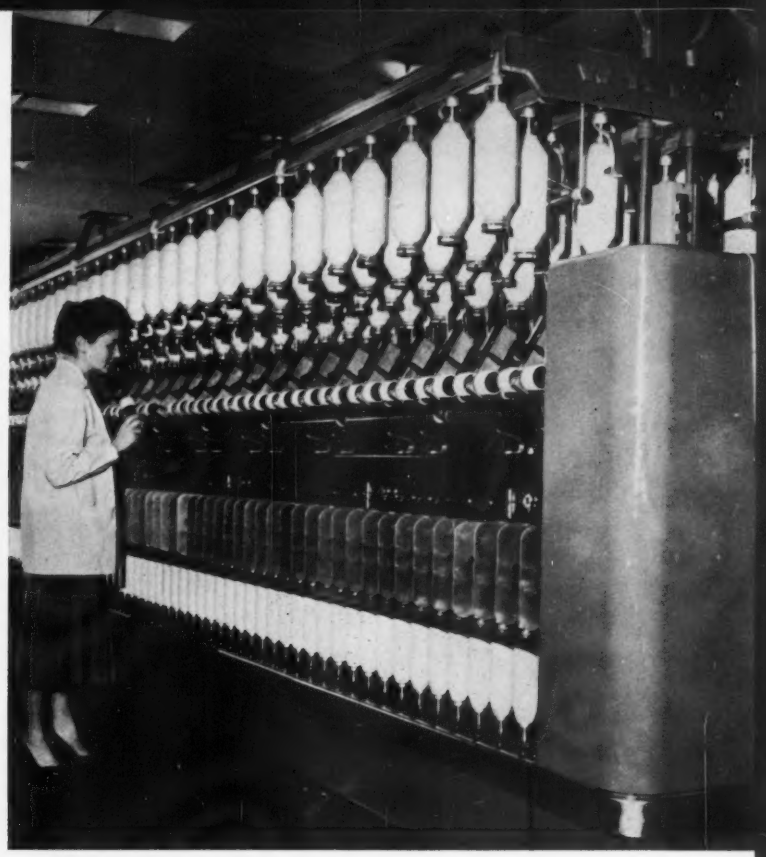
In 1956, the decision of Royal Little to move his many-faceted and fast-moving Textron, Inc., out of textiles gave Abney another opportunity to expand by purchase. Robert Huffines, then engaged in reshaping and trimming Textron's textile interests into the new Amerotron, dropped into Grier's Greenwood office with an interesting thought: "How would Abney like to buy Textron's Toxaway group of plants centered at nearby Anderson where Abney already owned a mill?"

The Toxaway mill group, consisting of Toxaway, Southside, Riverside and Ladlassie Mills and Gossett dyeing and finishing plant, were good mill properties. They were well-equipped and efficient, and one of them was a modern one-story weaving plant specializing in filament synthetics, an area of the market where Abney wished to expand.

In January, 1956, the deal was completed by having Toxaway Corp., a wholly-owned subsidiary of Abney Mills, buy the Textron Anderson plants, bringing to Abney an additional 75,000 spindles and 1,700 looms. But more important than the actual count of spindles and looms in the Toxaway division was its contribution to modern efficient production and diversity of products.

In the era of textile expansions by merger in the years since the end of World War II—an era which has seen the headlong growth of giants like Burling-

(Continued on Page 90)

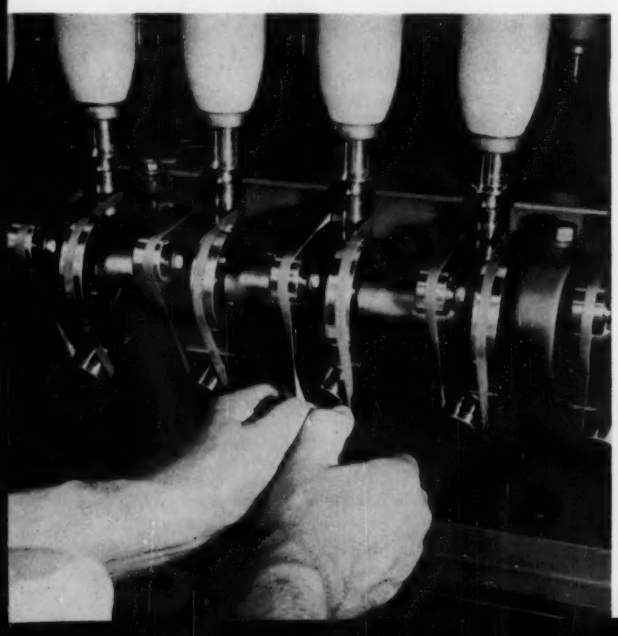


MODERN LOOK—Designed to occupy less floor space, the new frame is only 27 inches wide. It has the clean lines found today in good industrial design.

Whitin unveils new "Piedmont" spinning frame

By the Editors

AN ENTIRELY new spinning machine equipped with individual spindle drive replacing the traditional cylinder and tape system will be publicly shown for the first time at the Southern Textile Exposition in Greenville, S.C., next month.



Its maker, Whitin Machine Works, Whitinsville, Mass., has been working on the development of the new spinning frame for the past five years. During the past 12 months, the machine, which has been tradenamed "Piedmont", has been tried in a number of mills under competitive production conditions, running a broad range of cotton yarns from carded coarse counts to fine combed counts. The frame, of course, will function efficiently spinning man-made fiber blends as well as all-cotton yarns.

The mill tests, according to Whitin, "more than substantiate" the goals and objectives set for the new frame by its designers.

The new machine responds to the demand in the industry for spinning frames occupying reduced floor space. It has a 27" frame width, and its components have been designed to fit harmoniously into the conception of a narrower spinning machine. This new approach has resulted not only in less floor space occupied, but in a markedly different frame in which there is elimination of the cylinder, cross shafts and underframe pulleys. Resulting advantages, Whitin reports, include improved performance, better spinning conditions and improved yarn quality along with greater frame cleanliness, and decreased operating, production and maintenance costs.

INDIVIDUAL SPINDLE DRIVES—Drive belts on the new machine can be changed in ten seconds while the machine is running.

EASY JOB—Good balance and improved gear ratios permit easy wind-down for doffing on the new Piedmont machine. In the picture the girl operator has the crank in position for balloon ring wind-down.

Outstanding in the new machine's innovations, Whitin states, is its new spindle drive system in which each spindle is individually connected to the drive shaft by a small, tough belt. These spindle drive belts are connected to drive shafts that run along either side of the machine outside the spindle rail. One advantage of the new individual drives, Whitin reports, are more uniform speeds because there is 180-degree contact between belt and whorl. Another advantage is more uniform twist generation. Also, the new drive system eliminates the windage problems of large cylinders and tapes, and permits a completely covered drive for cleaner operations.

Other major features of the new machine are a minimum of creel overhang, straight-line spinning, with a new, more scientific balloon control system, streamlined head and foot end housings which enclose the motor and all gearing, builder and traverse mechanisms.

The machine also possesses a greatly simplified draft constant system which permits instant computation and change within a wide (5-75) draft range, traverses up to 12", and a new builder with simplified adjustments for changing winds and pick selection. Also unique is the built-in "Pneumakool" unit which is used to exhaust motor heat so that humidity conditions near the foot end are not affected by motor heat.

Whitin states that the advantages of straight line spinning have been used to the fullest extent in the new machine. However, the entire machine has been speeded up; consequently, Whitin engineers have developed a highly scientific system of balloon control. The closely controlled formations permit twist to travel from traveler to rolls unimpeded thus producing smoother yarn and better twist distributions. Two large rings act to separate the balloon into shorter segments. This greatly reduces yarn tension, and experience to date points to significant reduction of ends down. The new machines which have been tested in the field to date have shown that, in comparable conditions, more even yarns with higher break factors can be produced.

Head and Foot End Innovations

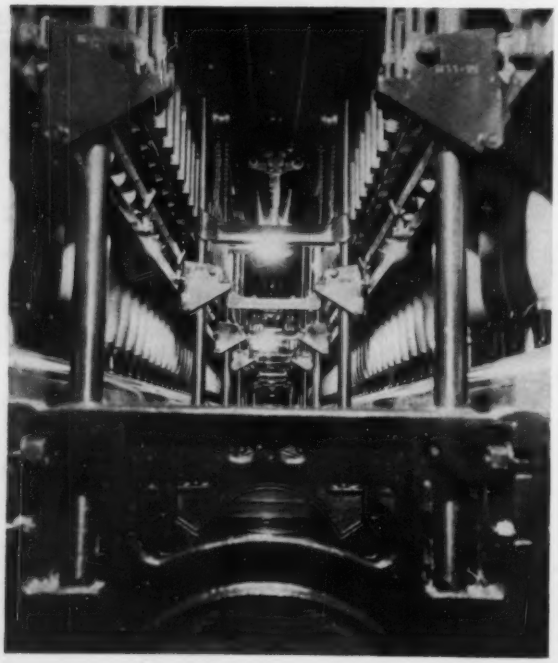
In the design of the "Piedmont" machine, Whitin believes that it has achieved a large measure of compactness and simplicity. All gearing, builder and traverse mechanisms are enclosed in the head end. A simplified draft constant system is used which will permit instant computation and change of draft ratios. The new builder motion is equally accessible and has a simplified system for changing winds, with easy and exact pick selection. Ring rails can be cranked up or down from the head end, and the control rings can be swung upward for easy doffing.

A spring counterbalancing system for the ring rails is used, along a compensating cam which prevents any binding or "jumping" during the traversing cycle. Traverses up to 12 inches are available, offering larger packages.

Drafting System

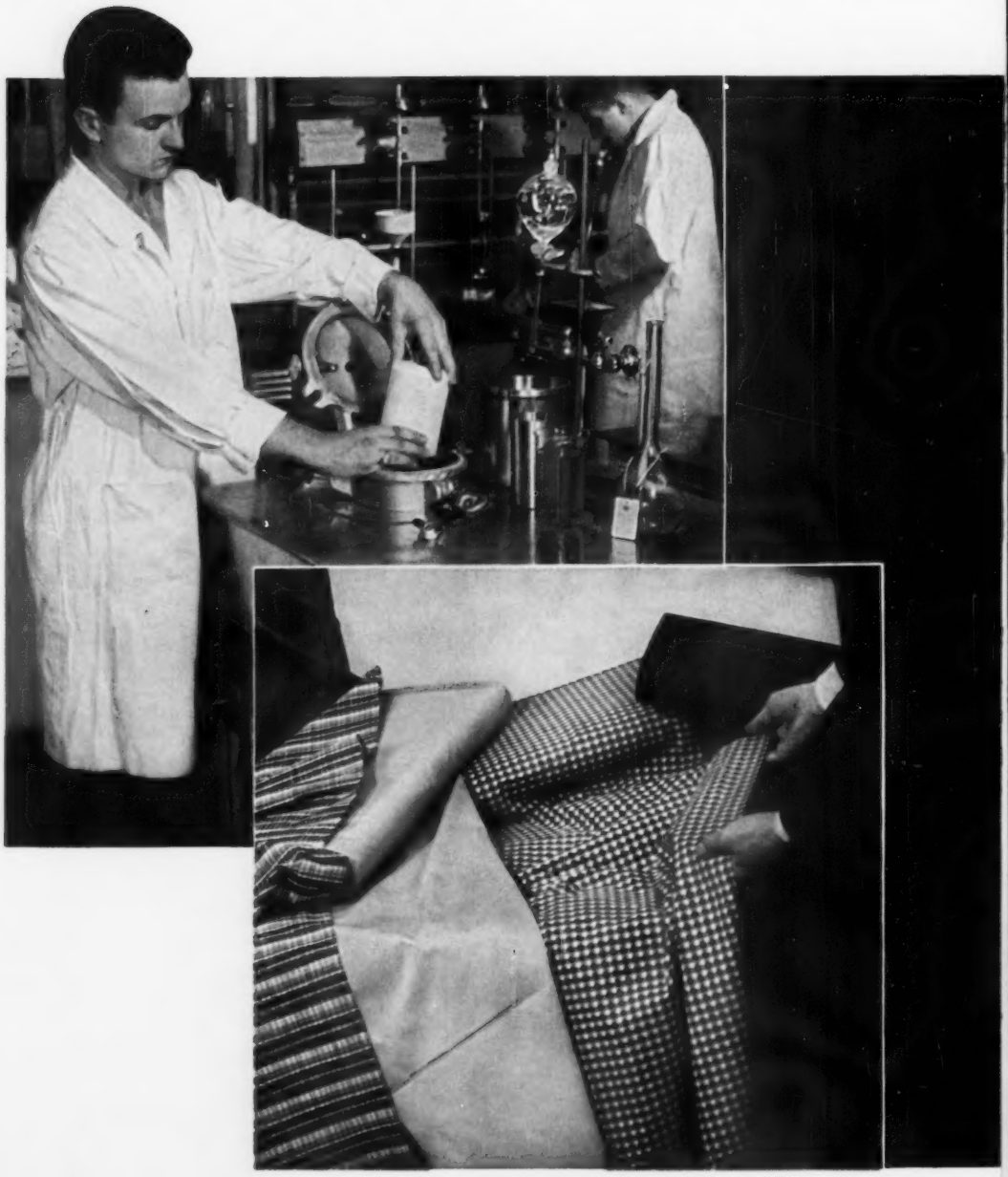
Whitin's latest type Super-Draft system, now in use on more than 5,000,000 spindles, is combined with the company's new Unitrol top-arm weighting system for maximum spinning efficiency. More accurate fiber control with all fiber lengths is provided at all drafts. The Unitrol top arm is quickly and easily lifted with a swift lever action. A single line of revolving clearers permits maximum cleaning action of the draft area by overhead cleaners.

The Piedmont also has a new overhead creel with triangular rails for better roving distribution and easier cleaning. The Casablancas bobbin holders permit push-pull changing of all bobbin sizes. The two-post creel supports provide extreme rigidity. ■



MOVING PARTS REDUCED—This view inside the frame shows absence of moving parts made possible by new individual spindle drive.

Dyers know that National



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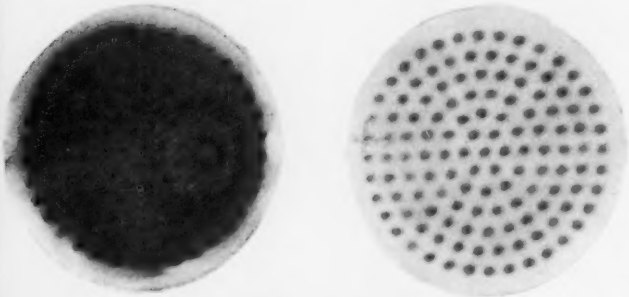
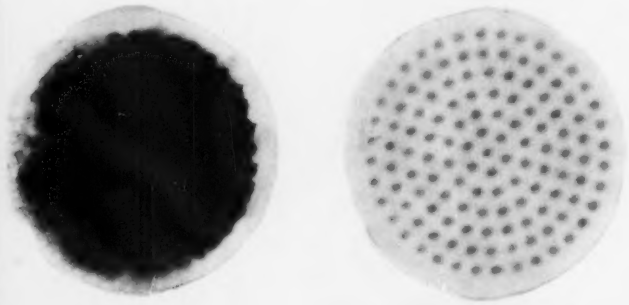


Dispersibility of Vat Dyes
as demonstrated by Buchner Funnel Filter Test



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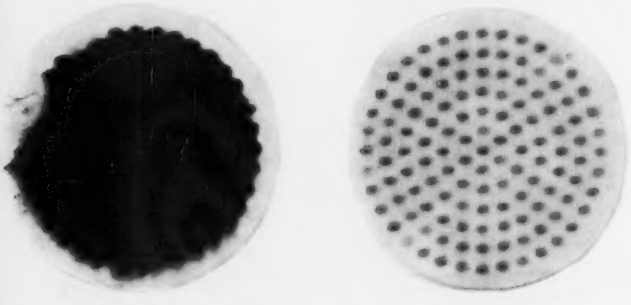

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New VERSAMATIC

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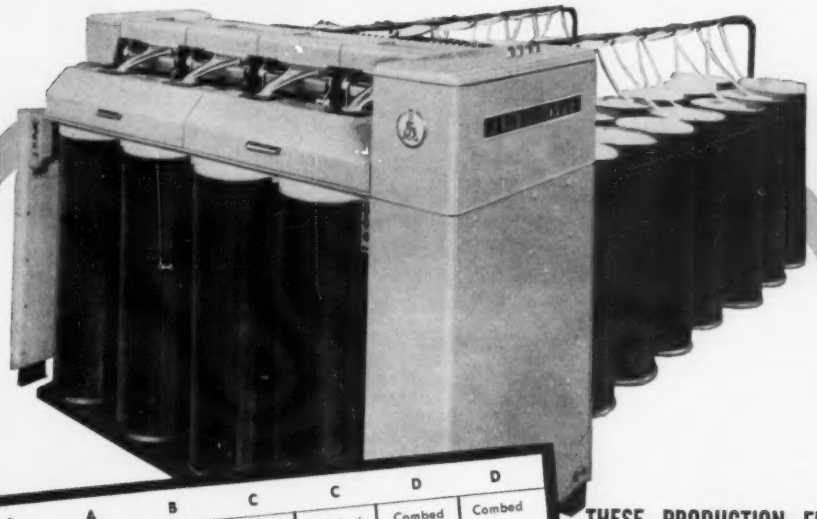

Mill	A	A	B	C	C	D	D
Stock	Carded	Carded	Combed	Combed	Combed	Combed	Combed
Process	1st Process	2nd Process	1st Process	1st Process	2nd Process	1st Process	2nd Process
Model Versa-matic	4 Over 5	4 Over 5	3 Over 4	3 Over 4	3 Over 4	3 Over 4	3 Over 4
Sliver Fed	52.5 gr.	54 gr.	55 gr.	120 gr.	60 gr.	62 gr.	55 gr.
Ends Up	8	8	8	4	6	6	6
Speed	300 ft./min.	300 ft./min.	260 ft./min.	216 ft./min.	216 ft./min.	250 ft./min.	250 ft./min.
Sliver Delivered	54 gr.	56 gr.	55 gr.	60 gr.	60 gr.	55 gr.	55 gr.
Tester	Saco-Lowell	Saco-Lowell	Saco-Lowell	Brush	Brush		
Variation	16%-19%	16%-19%	10%-13%	14%-16%	11%-13%		
Efficiency	92%-95%	92%-95%				82%	82%
Deliveries	16	16	60	32	32	12	12
Deliveries/Operator	32	32	30	32	32	24	24
Can Size—Back	18" x 42"	16" x 42"	15" x 36"	14" x 36"	14" x 36"	15" x 36"	15" x 36"
Can Size—Front	16" x 42"	16" x 42"	15" x 36"	14" x 36"	14" x 36"	15" x 36"	15" x 36"
Yards/Can	4000 yds.	4300 yds.	3300 yds.	2850 yds.	2850 yds.	3500 yds.	3500 yds.
Pounds/Can	31 lbs.	34 lbs.	25.9 lbs.	24.4 lbs.	24.4 lbs.	27.5 lbs.	27.5 lbs.
Draft	7.77	7.71	8.03	8.03	6.00	6.75	6.00
Pounds/Man Hour	1380 lbs.	1430 lbs.	1105 lbs.	1070 lbs.	1070 lbs.	772 lbs.	772 lbs.

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REPORT FROM EUROPE

By SPECIAL CORRESPONDENT

French Prepare for Common Market

PARIS—The French textile industry is making steady strides to prepare itself for the opening of the European Common Market scheduled for next Jan. 1. Man-made fiber output is expected to rise 40% this year from 1957. And the cotton industry is plunging ahead on a radical program of modernization.

Cotton Mill Renovation

The French Cotton Manufacturers Syndicate announced shutdown of 17 weaving mills and one spinning plant during the past year. This brings to 230 the number of cotton plants closed since the industry-led reconversion and modernization program was launched in 1954.

Mostly marginal mills are being shut down and their obsolete equipment destroyed. Small, poorly equipped firms are merging; others are embarking on specialized production better suited to today's consumer demands. In 1957, the association reported, cotton mills had their best production year since World War II, with yarn output at 301,000 metric tons, 11.5% over 1956.

Man-Made Fiber Output Grows

Jean de Precigout, president of the French Synthetic Textile Syndicate, said synthetic yarn and fiber production in 1958 should reach a record high of 28,000 metric tons, as compared with 19,757 tons last year. Nylon and Rilsan made up 67% of the 1957 output, and production continues to rise.

Some Problems Loom

Since the beginning of 1958, the French Spinners Association reported, rayon mills have been facing stiffening competition from Japan and other Asian countries. Raw material prices, meanwhile, remain high—even compared with wool—while the cost of certain dyestuffs, subject to 30% import duties, also has jacked up French prices. Rayon filament and staple fiber output in 1957 was 12.8% over 1956—at 123,501 metric tons. Staple output was slightly greater than filament.

Germans Charge U. S. Dumping

While German exports of viscose staple to the U. S. are now trending downwards, imports of American rayon staple into Germany were on the rise. This has brought forth reports that German rayon mill men will seek government help in the form of tariff protection. The German textile men maintain that their viscose staple exports have been used principally for specialized purposes such as carpet yarns, but that U. S. shipments to Germany have been strictly a matter of below U. S. price sales.

First German Textile Fair

West Germany will hold its first international textile trade fair during January 20-23, 1959, under the name of "Inter-Stoff." The Frankfurt Fair Corp., with textile trade assistance, will handle the arrangements. If successful, it may be staged twice yearly. Mostly European textiles will be shown. Meanwhile, the German Cotton Institute, with the help of the International Cotton Council, has started a campaign entitled: "Am Liebsten Baumwolle"—"Cotton's For Me."

UK Man-Made Trade Future

Sir John Hanbury-Williams, chairman of Courtaulds, Ltd., told the annual stockholders meeting that the April-June, 1958, profits were lower than the same quarter of 1957. Even if the fall situation should improve, he declared, 1958 profits would probably remain depressed.

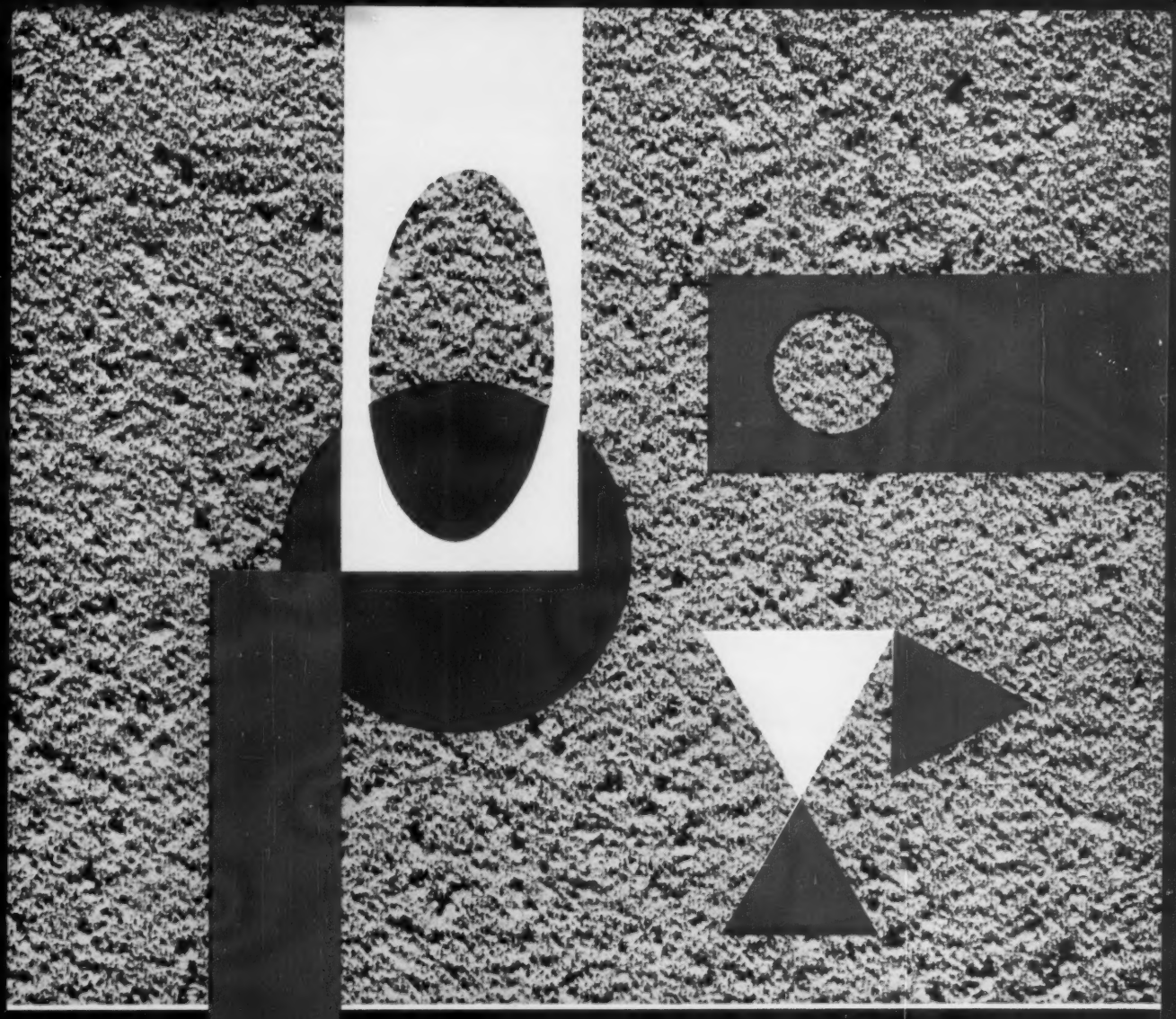
He noted that short-time work has had to be invoked in several mills and that demand has not shown any marked improvement. He also remarked that the world industry is suffering from excess capacity, especially noticeable in the U. S. and among some new man-made fibers.

UK Price Controls Ended

Frank Norcross, secretary of the British Rayon Staple Spinners' and Doublers' Association, said the group's price agreement has broken down and henceforth prices would be a matter for free negotiation. The Cotton Yarn Spinners Association has been maintaining comparable price controls and is due to appear before the Restrictive Practices Court later in the year.

Wool Polyester for US

Lanerossi of Venice, is preparing a wide range of wool and Terital polyester fiber woolens for export to the U. S. The collection will be ready at the end of September. Lanerossi makes use of large amounts of Terital in wool blends—with a 45-55% Terital-wool ratio.



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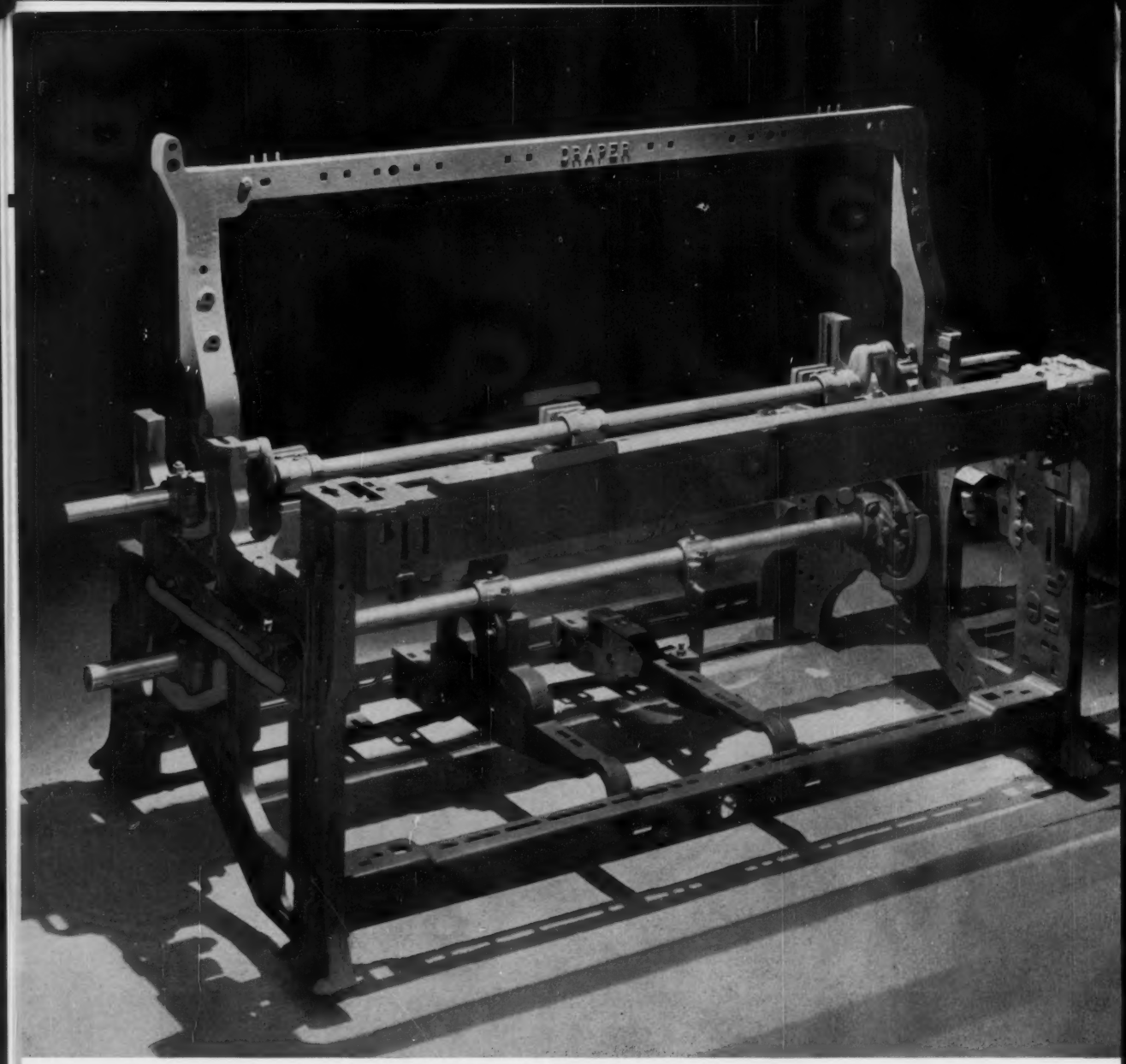

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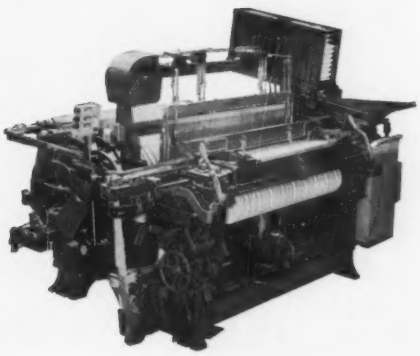

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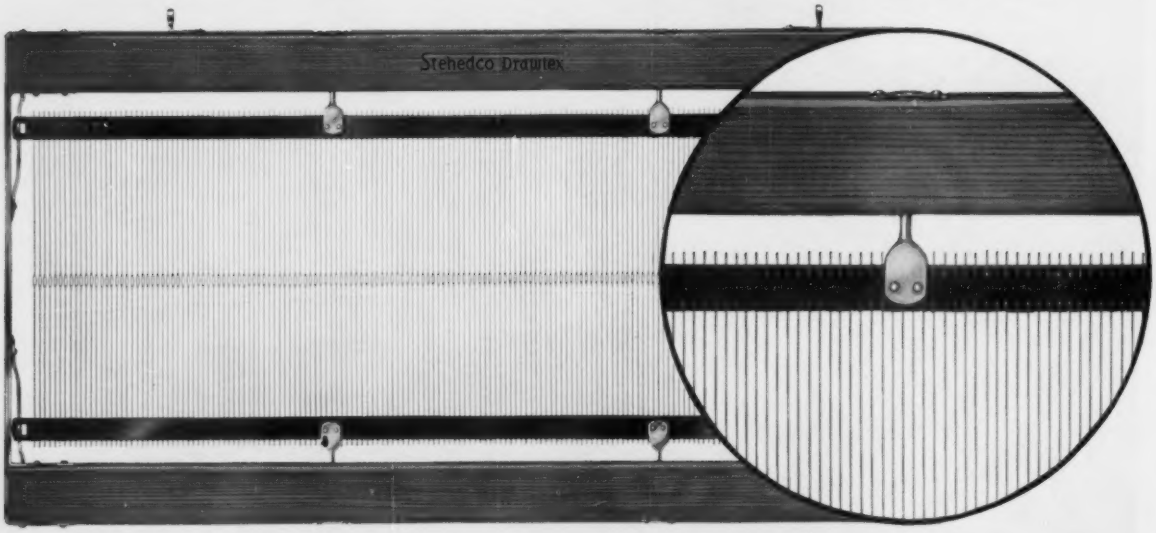
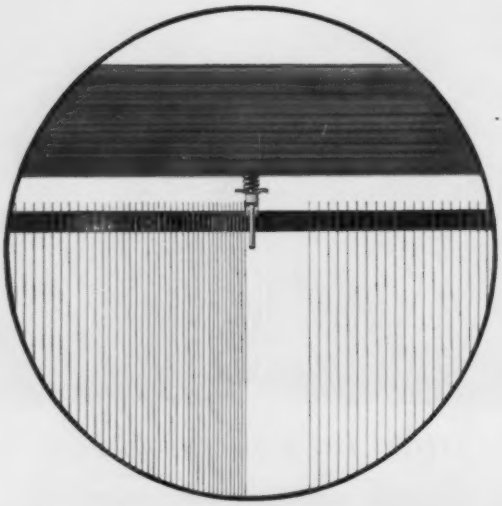


Are your weavers and fixers handicapped by bunching of heddles at rod supports, as illustrated below?



Stehedco Drawtex rod supports allow completely free movement of the heddles. There is no obstruction to keep the heddles from finding their natural position on the rod. Therefore, warp streaks from heddle bunching are completely eliminated and down time to correct this condition is a thing of the past.

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MODERN TEXTILES MAGAZINE

PROFIT OPPORTUNITIES IN

MAN-MADE FIBERS

a guide for

- YARN SPINNERS
- WEAVERS
- KNITTERS
- DYERS & FINISHERS
- CONVERTERS

By Jerome Campbell
Editor, Modern Textiles Magazine

NEW FABRICS • NEW END USES • NEW MARKETS

RIGHT NOW, as never before, the many-sided American textile industry is vibrant with new ideas, overbrimming with new products and alive with carefully worked-out suggestions as to how to employ its fibers, yarns and fabrics in profitable end uses.

All these new ideas and new products flash a message of new profit opportunities across the whole broad spectrum of textiles: a message for mills; for converters; for dyers; for manufacturers of garments and home furnishings; for makers and users of cloth for industrial purposes.

In the following pages we report the most significant of these new developments. Our aim is to hasten the cross-fertilization of profit-making ideas throughout the textile industry. It is our hope that we can suggest to the users of fibers, yarns and fabrics everywhere new paths to broader, fresher and more rewarding markets.

We have broken down our report into the major end-use categories of apparel, home furnishing and domestic fabrics; and last, but by no means least, industrial uses of fabrics and yarns.

MAN-MADE FIBERS IN APPAREL

IN WOMEN'S DRESS FABRICS, nylon in tulles and voiles has found wide acceptance, encouraged by the prestige given by use of these sheers in the collections of the big-name Paris designers. Notable in his employment of nylon tulle, for example, has been Ives St. Laurent, hailed as the successor of Dior. St. Laurent's recent dresses have made lavish use of this fabric, especially in white. His partiality toward nylon tulle is expected to make it more popular in the United States in the coming winter season.

Voiles woven of 65% Du Pont Dacron polyester fiber and 35% cotton have achieved acceptance in summer dresses this year. The Dacron-cotton construction, giving this sheer fabric wrinkle-resistance and washability with little or no ironing, overcomes some of the weaknesses that, in the past, have limited the acceptance of voile as practical womenswear. Now that crispness, freedom from wrinkling and easy-care are possible in voiles, far wider use of these fabrics in popular-priced dresses is virtually a certainty.

In innumerable other dress and blouse fabrics, the Dacron-cotton combination continues to maintain itself. This blend is now permanently established as one of the basic elements in both women's and men's fabrics. As an example of how leading mills are constantly widening and varying their use of Dacron-cotton blended fabrics, Galey & Lord has four such blends in their open line.

LONG AND WARM—This fashionably long car coat of Celanese Arnel triacetate and Du Pont Orlon acrylic fiber is knitted by Peter Freund of a Milliken yarn tradenamed "Gaylana." The plaid pants are cut from acetate-rayon brushed flannel.

The heaviest of these and the newest is "Bonebark", a two ply blend of 50% Dacron and 50% cotton in a twill weave with a wash-and-wear finish. Already one dress manufacturer, Robert Morton, has used it in two dresses to retail at the impressive price of $90. Many other manufacturers are planning to use the fabric in sportswear for both men and women.

Another Galey & Lord 50-50 Dacron-cotton cloth, tradenamed "Zugra", is woven in a slightly lighter weight. In both solid shades and a range of plaids, it has been successful for several seasons and is still going strong. It has been used by Gordon of Philadelphia in sports jackets; in dresses and sportswear by such firms as Clair McCardell and Junior Sophisticates.

A similar blend "Sorcery", is the lightest of Galey & Lord's 50-50 Dacron-cottons. Palm Beach has used it in sports jackets. In womenswear spring and resort wear, it has been cut successfully by Pauline Trigere, Jane Derby and others.

Increasing the Dacron component to 75% blended with 25% cotton, Galey & Lord have had a success with a fourth fabric. This is "Pinfeather", which for four years has been used by Haspel in its "Sir Perior" men's summer suits and was recently adopted by the Women's Army Corps for use in summer uniforms. This true wash-and-wear fabric has also found wide acceptance in summer uniforms of the American Red Cross, the Grey Ladies and many visiting nurses groups.

In Canada also, combinations of polyester fibers with cotton are succeeding in uniform fabrics. Bruck Mills has blended 80% Terylene, the polyester fiber of Canadian Industries, Ltd., with 20% cotton in a white fabric cut into women's professional uniforms by White Sister Uniforms, Inc. A high degree of comfort in wearing, plus a durable crisp appearance maintained with only a little touch-up ironing after machine washing, are said to be the advantages of this fabric.

News was also made by man-made fibers in uniforms this summer at the American Pavilion of the Brussels Fair. Some 250 men and women guides wore uniforms donated by Chemstrand. Fabric for the women's uniforms was a 70% Acrilan acrylic fiber and 30% worsted blend produced by Fabrex. The blouses were opaque nylon tricot knitted by Iselin-Jefferson and cut by David Crystal. Hats for the women guides were made of nylon satin woven by William Skinner. For their part, the men guides wore slacks of 35% Acrilan and 65% wool flannel along with striped blazers of a 70% Acrilan and 30% wool fabric.

HIGH FASHION PLUS EASY CARE—Use of nylon georgette makes this elegant party dress washable and quick to dry. It can be packed for hours in a suit case and will bounce right back to shape without pressing.

RAYON-COTTON BLENDS

The trend to blend man-made fibers with cotton, notable in the case of Dacron, Terylene and other non-cellulosics is by no means confined to these newer fibers. Rayon, the oldest of the man-mades, has been pushed strongly in combinations with cotton during the past few months. Chief force behind this new development is American Viscose Corp.

In April, American Viscose announced a new program to promote rayon-cotton blends under the trademarked name, "Cotron", which the company defines as fabrics woven or knitted of blends of its rayon with cotton. A spokesman for the company stated that rayon-cotton fabrics are becoming increasingly important because of the "many functional and esthetic advantages of this combination of fibers."

Among the advantages of "Cotron" fabrics claimed by American Viscose are a "softer, silkier hand and a richer luster" than comparable constructions of 100% cotton. Other properties of the blend, it is said, are greater clarity of color and increased colorfastness.

Of special significance among the advantages of rayon-cotton blends are their asserted superiority over all-cotton in accepting resin wash-and-wear finishes with less loss of basic tensile and tear strength. (For a detailed report on these properties see MTM June, 1958 pp 69 to 87).

American Viscose reports that over two years of research and development have been invested in testing rayon-cotton fabric constructions and demonstrating their potentialities. This program will be continued at an "accelerated pace". For mills, converters and apparel manufacturers, the company believes that rayon-cotton blends open the door to the introduction of new weaves, new textures and new finishing effects. All these, it is expected, will pay off in greater sales opportunities in the future.

FIRST PERFORMANCE—This jersey blouse and skirt is knitted from yarns combining 75% Creslan, American Cyanamid's new acrylic fiber, and 25% wool. The fabric is an experimental one developed in Cyanamid's extensive wear-testing program for its new fiber.

To obtain the "Cotron" label on rayon-cotton blended fabrics, a fabric manufacturer will have to use American Viscose's rayon in his blend; he will also have to turn out a cloth that will measure up to end use performance standards set by American Viscose. Adherence to these standards will be periodically checked by the rayon producer.

As a sign of what may prove to be a growing trend, one important maker of men's underwear has already announced adoption of the Cotron label. The Allen-A Co., Piqua, Ohio, will put the name on its Allen-A Dittos line of briefs, athletic shirts and T-shirts made of cotton-rayon fabrics. According to president Henry Flesh, the blend of cotton and rayon gives greater strength, a better hand as well as better laundering and drying qualities. Flesh also likes the Cotron label because it will serve to link his company's underwear with American Viscose's heavy consumer advertising program aimed at promoting Cotron nationally.

Interest in greater use of cotton-rayon blends is being encouraged by another fiber producer. American Enka Corp., a major manufacturer of rayon staple fiber, recently started an advertising program stressing for wash-and-wear fabrics the advantages of this blend and designating fabrics using it as "bonus" fabrics. Enka recommends for wash-and-wear end uses a blend of 2/3 cotton 1/3 rayon. It asserts that it has run extensive laboratory tests, in conjunction with other fiber producers on an 80 X 80 blend of 2/3 cotton "enriched" with 1/3 rayon. (For a detailed report on these tests see MTM June '58, pp 69 to 87 already referred to above.)

These tests show, Enka declares, that when this blend is properly dyed and finished, Enka rayon "accentuates the best qualities of both fibers and minimizes the loss of strength which results when resin finishes are applied. Enka's advertisements further state that the 2/3 cotton 1/3 rayon blend fabrics "have greater strength after finishing and repeated laundering than all-cotton fabrics which have been resin treated, yet are priced right for the traditional volume market." As a clincher, the Enka advertisement declares that these "bonus cottons enriched by rayon offer a more luxurious hand, a silky firmness, and a better drape. White goods are whiter, colors stay brighter—longer. Patterns define themselves sharply."

Meanwhile, Courtaulds (Ala.) Inc., a company that produces only rayon staple fiber, both uncolored and solution-dyed, has not been neglecting the great trend toward wash-and-wear apparel. Its fabric development people have found that the company's solution-dyed rayon staple fiber, because of its unusual high degree of wash fastness, can make an important contribution in wash-and-wear fabrics when blended with such hydrophobic fibers as Dacron and Orlon.

Courtaulds reports that Dacron-rayon blends may be colored simply and directly and with a high degree of wash fastness by using its Coloray solution-dyed staple as the rayon component. The same recommendation is made for Orlon-rayon blends. The availability of solution-dyed rayon, with its remarkable color-fastness in laundering, is thus a strong recommendation for using rayon rather than cotton in blends with hydrophobic fibers to achieve wash-and-wear apparel whose colors will remain undimmed through many launderings.

NEWEST OF NEW FIBERS

The most recent development in Courtaulds (Ala.) Inc.'s activities as a specialized producer of staple fiber came last month with the announcement that it was introducing two new fibers. Courtaulds describes them as "members of a new family of cross-linked man-made fibers with properties distinctly different from those of rayon, acetate or cotton."

One of the new fibers is tradenamed "Corval". It is said to have the great advantage of giving loft, warmth and kindness of hand. It is particularly recommended for improving the esthetic properties of synthetic fibers and also for blending with wool. The fiber is priced at 40 cents a pound and will be available in bright and dull luster, regular and crimped, and in all standard deniers up to and including 15.

The second new Courtauld fiber is named "Topel". It is designed for use alone and in blends with cotton, acetate and nylon. It possess a relatively low elongation at break and a high resistance to alkalies. For this reason it is considered a particularly good fiber for blending with cotton to which it is said to impart improved appearance, hand and drape. Topel is priced at 34 cents a pound and will be available only in uncrimped form in 1½ and 3 deniers in both bright and dull lusters.

Courtaulds states that the following properties are common to both fibers, although, generally, Corval possesses them to a greater extent than Topel.

1. Water absorption and swelling properties comparable with those of cotton. This property permits both fibers to be yarn dyed in 100% form either on packages or beams.
2. Substantial elimination of progressive shrinkage.
3. Similar dry tenacity to that of rayon with a higher tenacity when wet
4. Elongation at break intermediate between that of cotton and rayon.
5. Good resistance to caustic alkalies and can be mercerized in blends with other synthetic fibers.
6. Can be resin treated with a wide range of cross-linking materals to obtain good wrinkle resistance.
7. May be dyed with all the normal dyestuffs used for cellulosic fibers.

Fabrics containing both fibers are expected to appear on the market before long. Meanwhile, intensive development work is being conducted by Courtaulds to broaden the end uses of the new fibers.

KNITWEAR USES GROW

In the current womenswear scene, knitwear is more than ever before an expanding and fast-changing area of potential profits. In the past year knitted fabrics gained in every type of women's apparel uses. Fur-resembling deep pile coatings and linings became more varied and more luxuriant; knitted garments are seen at every style show featuring the dresses and suits of America's best known manufacturers. In lingeries and sleepwear, knitted nylon and acetates also developed broader variety and smarter styling.

It is the man-made acrylics, of course, which give knitwear much of its current variety, zip and rapid expansion into new end uses. As many as ten mills, for example are producing deep pile coatings with Dynel, the acrylic fiber of Union Carbide Chemicals Co., blended with other acrylics. While most of these fabrics are knitted, some are woven. One manufacturer, Paraco Woolens of Passaic, N. J., is blending Dynel with animal fur fibers to produce a fleece fabric said to have a lustrous nap and to resemble Vicuna. In making the fabric, the fur fibers are blended with the Dynel in stock form. Tradenamed "Furnel", the fabric is said to have a weight of 18 ounces a yard and to possess softness, and warmth with light weight. Coats made from the fabric will retail for $80.

Another new fiber finding growing use in fur-like pile fabrics is Verel, the "modified acrylic" made by Eastman Chemical Products, Inc. For winter pile coats to be introduced in the fall, Glenoit Mills has produced its "Regina Glenara", an all-acrylic fabric containing a high percentage of Verel. Similarly, Princeton Knitting Mills' new "Temptation" cloth is an all-acrylic with guard hairs of Verel. Qualities which recommend Verel in pile fabrics are said to be its controlled shrinkage, soft hand and whiteness which enables it to be dyed readily in a wide range of colors.

Women's coatings will also be one of the forms in which Zefran, the new acrylic fiber of Dow Chemical Co., will make its appearance in stores this autumn.

ZEFRAN DEBUT—The new fiber of Dow Chemical Co. makes one of its earliest appearances combined with wool in a 55/45 blend to provide the fabric for this coat. Lightness, warmth, softness and long wear are said to be Zefran's good points.

A. D. Ellis Mills and Worumbo have produced coatings using this fiber. Talbott Mills is offering a full-fashioned women's sweater of 100% Zefran. Heller has blended the fiber with cotton in jersey dress fabrics; Bloomsburg Mills has blended it with silk in a dress fabric, and Shirley Fabrics has combined it with rayon also in dress goods. In knitted fabrics, Zefran is being used in a wool blend by Britton Fabrics for dresses, and S. Augstein has a Zefran-wool blend for children's wear.

In Canada, a novel development in man-made fibers in fur-like pile fabrics has been the employment of Terylene polyester fiber for this purpose. Terylene's maker in Canada, Canadian Industries Ltd., reports that a Montreal manufacturer of coatings, Mrs. Jeanne Sirbain, uses chenille yarns of Terylene to create a Persian lamb type of pile fabric by pressing the yarn into a bristled frame much

SMART AND PRACTICAL—This knitted dress of Eastman acetate and nylon has the advantages of keeping its shape and being easy to maintain. It is washable, and it dries fast without need for steam blocking or pressing.

like an Indian fakir's bed of nails. When the yarn is thus laid out to resemble a Persian lamb pelt it is removed from the frame and heat bonded to a backing fabric. It is then ready for cutting into coats which are said to be warm, light and long-wearing as well as Persian-lamblike in their luster and softness.

Other new womenswear applications of Terylene have been wool blends for skirt, dress and coat fabrics along with 65/35 Terylene-rayon blends for similar end uses. Under development are Terylene-wool fancy striped and checked fabrics for skirts and dresses to supplement the presently available plain colored goods. Meanwhile recent months have seen a broadening development for the 65/35 Terylene-cotton fabrics introduced last year. Among these new cloths under development are heavier weight blends of Terylene and cotton which are expected to be available shortly for nurses' uniforms, rainwear and sportswear.

In the field of Terylene filament apparel fabrics, new woven blouse and dress fabrics were produced that combine both filament and spun yarns as well as ordinary and bulked filament yarns. In knitted goods, the introduction in tricot constructions of pleated, checked and brushed fabrics and trimmings extended the basic range of plain and striped blouse, dress and lingerie goods made available last year. Also recently introduced were bulked filament yarn fabrics and a line of Taslan Terylene shirting fabrics and stretch socks.

ACETATE & ARNEL KNITS

In knitwear another new development has been the introduction in women's knit dresses of a new fabric made of a yarn combining Eastman's lofted acetate filament yarn with textured nylon filament yarn. The dresses, manufactured by Rosanna for spring and summer wear, are said to possess crush and crease resistance while remaining free from sagging or stretching. They are hand launderable, quick drying and do not require steam blocking or pressing. The combined acetate-nylon yarn is said to possess a controlled elasticity that makes it easy to use on ordinary knitting machines. The yarn is also said to dye readily in a wide variety of colors ranging from pastels to deep shades.

Of special interest to retailers is the fact that the freedom from sagging and stretching of these acetate-nylon knit dresses makes it practicable for stores to hang them in stock—said to be the first time knit dresses have been offered with this desirable quality. And those readers fascinated by the vagaries of fashion should note that one of these Rosanna dresses, aptly tradenamed "Turnabout", is a chemise that can be worn either backward or frontward.

For women who want to knit their own dresses, and for knitting yarn departments that want something new, a hand knitting yarn of lofted Eastman acetate combined with textured nylon has been introduced by Bernhard Ulmann to sell at 79 cents a skein. Ulmann will also distribute a book of instructions for using the new yarn to knit dresses that will possess the same qualities as those described above.

Still another significant innovation in knitwear has been the introduction by Deering Milliken of a new knitting yarn which blends Celanese Arnel Triacetate and Du Pont's Orlon acrylic fiber. Tradenamed Gaylana, the yarn has been made up into a collection of sweaters and sweater coats, both long and short, designed by Peter Freund. They will appear in stores throughout the country this fall.

Advantages of the new Gaylana sweaters are said to be resistance to pilling, a comfortable degree of warmth, easy washability and resistance to shrinking, stretching, sagging and bagging. These desirable properties are expected to increase the popularity of fashionable knitted coats with women, and perhaps open the door to a whole new era of broadening use of knitted garments in women's "dress-up" fashions.

Meanwhile, Orlon remains strong in women's sweaters, although it more and more shares with nylon the credit of being the leading man-made fiber

in this field. The use of bulked and texturized nylon filament yarns such as Helanca type SW yarn, Saaba yarn made by the special process of Universal Winding Co., and Ban-Lon yarns have given nylon an expanded acceptance in sweaters.

These modified nylon filament yarns are also finding increased use in swimwear along with both Dacron and Orlon. Rayon and acetate, particularly in solution-dyed form, continue to be basic fibers in the growing swimwear market, where manufacturers look to increased sales in the future caused by the rise in the use of swimming pools, the larger amounts of leisure available to most people and the growing population.

In the specialized field of hosiery, colored nylons, "toned hosiery" as it is often called, added a new style note which is reported to be stimulating women's stocking sales, and which is expected to find steadily broadening acceptance. Colored nylons are being extensively promoted by Du Pont and Chemstrand as the leading producers of this fiber. Availability of nylon in the finer deniers needed for hosiery has been considerably broadened this year by the entry of American Enka Corp. into this area of nylon manufacture.

BEMBERG'S NEW YARN

In rayon, also, there have been new developments in specialty yarns that offer fresh styling possibilities in women's and children's wear. American Bemberg has added to its celebrated Cupioni shantung-like yarn and its other novelty yarns such as Strata, a thick-and-thin filament and Flaikona, a flaked yarn, a new yarn tradenamed "Parfé".

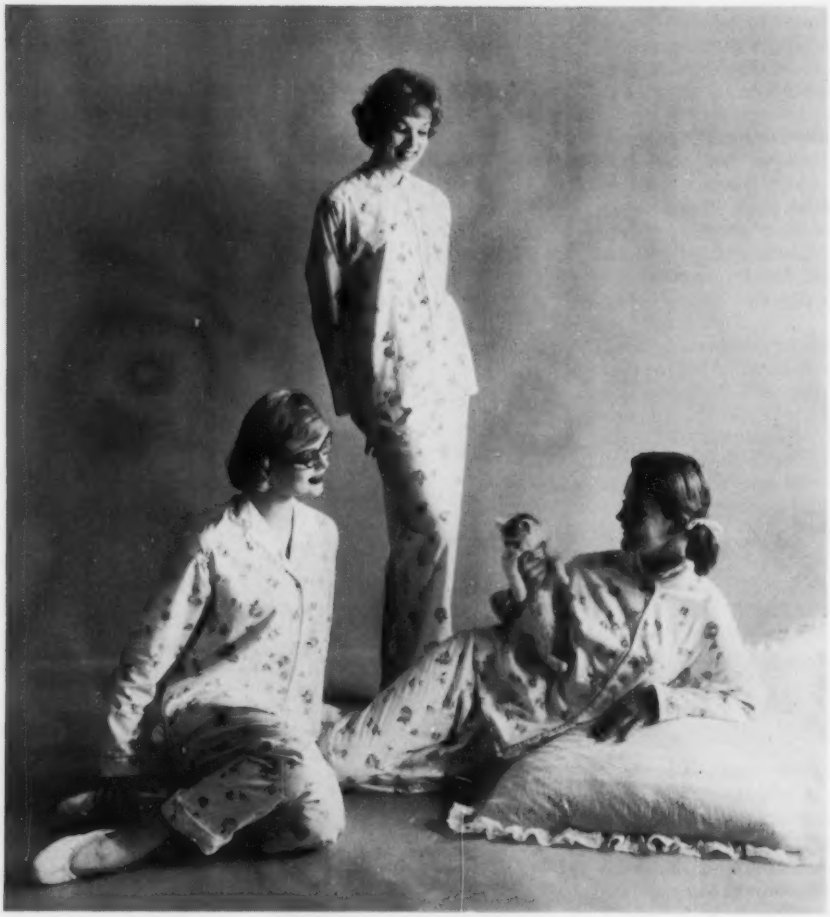
The new yarn has color spaced intermittently along its entire length, "introducing", as Bemberg says, " a new color dimension in fashion." It comes in two types, Parfé No. 2 with a wide span of color and wide space intervals, and Parfé No. 18, with a narrow span of color and narrow space intervals. The color is applied by a special Bemberg process and is said to possess the same fastness characteristics as solution-dyed yarns.

According to Bemberg, the variations in fabric styling developed by the company in its own experimental weaving department and by mills indicate that the styling possibilities in fabrics made of Parfé are virtually limitless. Most noteworthy of the new developments are fabrics with either a black Parfé warp or filling and then overdyed in a high style color. This development is made possible by the fact that Parfé colors, like solution-dyed shades, are not affected by subsequent dyeing procedures. One fabric that has won wide acceptance is a combination of cotton filling and black Parfé warp woven into a bayadere stripe. Other fabrics have been created with stripes in spaced and clustered patterns.

Several fabrics developed and exhibited to the trade recently by Bemberg combine a Parfé warp with a Cupioni filling, producing a shantung textured accent combined with unusual coloring effects. An acetate warp with Parfé filling results in a highly polished fabric with color striations. Cotton combined with Parfé is said to produce a soft mellow hand and interesting color effects. Other fabrics developed by American Bemberg use a Parfé filling combined with cotton and Dacron warp in wash-and-wear goods. Still others make use of a Parfé with metallics and Parfé with silk. The company has also developed warp and circular knit goods in which several colors of Parfé are blended in a variety of combinations and patterns.

One of the latest and most interesting developments in new rayon filament yarns was the introduction last summer by Industrial Rayon Corp. of a flat monofilament. Tradenamed "Tiaralon", the new yarn, produced by Industrial's special continuous process, is expected to find wide usage in shoes, millinery, handbags and place mats where its higher strength and better dyeing uniformity can be advantageously realized.

VELVET AND GOLD—To this at-home costume, metallic yarns by Metlon add a rich ingredient of superluxury. The velvet pants are schiffli-embroidered with gold, while the blouse is all gold cloth.



CALL IT COTRON—American Viscose rayon and cotton were blended to make the fabric for these pajamas. The company is promoting the trademarked name "Cotron" for such blends.

Industrial reports that when Tiaralon is used in 100% constructions or as the principal ingredient of a fabric, it imparts a firm straw-like hand with exceptionally high coverage with relatively little weight. When used sparingly, the new monofilament rayon permits novelty effects in stripes and shadows to impart style distinction to decorative or apparel fabrics. Development work with Tiaralon is going on in connection with houshold and automotive upholstery, seat covers, draperies and apparel fabrics.

In the area of specialty yarns, metallics are pushing forward to ever-widening achievements. The increasing production of metallics made with Du Pont's Mylar polyester film in recent years has greatly widened the end-uses in which metallics are practicable. With Mylar, metallics have advanced to the point where they are usable in machine washable fabrics; Mylar metallics are also dry cleanable, while in fabric wet processing, they suffer no damage in bleaching and dyeing.

In other words, metallic yarns are now available that may be used in virtually every kind of apparel or home furnishing fabric without in any way limiting the serviceability of such fabrics or imposing inhibitions on their maintenance by washing, ironing or dry cleaning.

One manufacturer, Metlon Corp., has further widened the possibilities of metallics by the introduction of a yarn, tradenamed "Ultra Vat", which has unusual resistance to light fading. The new yarn can withstand over 300 hours in the Fadeometer, it also possesses improved resistance to loss of color during mercerizing, bleaching, and particularly finishing with resins. These qualities, Metlon believes, make Ultra Vat yarns especially valuable in all types of washable cottons especially in connection with the growing interest in wash-and-wear.

Another news-making development in metallics in recent months was Metlon's introduction of a clear Mylar yarn, "Crystal Mist". This colorless yarn has a number of suggestive points of interest for the fabric stylist, who may wish to create new effects. Since it is transparent, it picks up the color of the yarns with which it is combined; it also permits resist-dye effects in piece dyeing. Its yield to the pound is exceptionally high—36,000 yards in the 1/64" width—a property which permits economy while obtaining new style effects. Crystal Mist is being used in woven and knitted dress fabrics, outerwear, shoe fabrics and in draperies.

A clear Mylar yarn has also been brought out by Lustre Yarns, Inc., a division of Standard Yarn Mills, and by the Dobeckmun Co. In addition to the established gold and silver metallics, virtually all major manufacturers of metallics made with Mylar now offer these yarns in a wide range of colors.

new fabrics for
MENSWEAR

It is one of the great achievements of man-made fibers that possibly more than any other single factor, they have brought the excitement of fashion to menswear—and thus helped the entire textile and apparel industries sell more of their products to the no longer dull-plumaged male. Currently, man-made fibers producers, and mills and converters using these fibers are deeply committed to supplying better and more attractive fabrics for menswear.

Men's suits, for years the last stronghold of all-wool fabrics, are yielding almost completely to the triumphant attack of blended fabrics containing large percentages of man-made fibers. In summer suits, and leisure wear generally it is no longer news that blends containing the man-made fibers are well-established. The coolness, comfort, and easy care features of suits containing these fibers has for years now made such garments established features in nearly every man's wardrobe.

Latest fibers to join the men's summer suit field are Dynel manufactured by Union Carbide Chemicals Co., and Darvan, produced by B. F. Goodrich Chemical Co. Rochambeau Mills has woven a 4.1 ounce summer suiting of 65/35 wool-Dynel which has been tailored into suits sold during the warm weather season ending this month. A high degree of wrinkle resistance and press retention are advantages of these garments which are also said to be extremely cool due to the lightness and porousness of the wool-Dynel cloth.

Earlier in the year, suits made of Darvan combined with worsted were introduced by Pincus Brothers—Maxwell in both summer and fall weights. Along with wrinkle resistance and crease retention, the new Darvan suits were said to be unusually free from pilling.

Meanwhile, as these new fibers gained initial acceptance in men's suits, Du Pont's Dacron continued to hold its position as the dominant fiber in this field. Wool-Dacron blends lead the field in men's summer suits while wash-and-wear suits of Dacron-cotton, Dacron-rayon and Dacron-Orlon found increasing acceptance in the 1958 warm weather season.

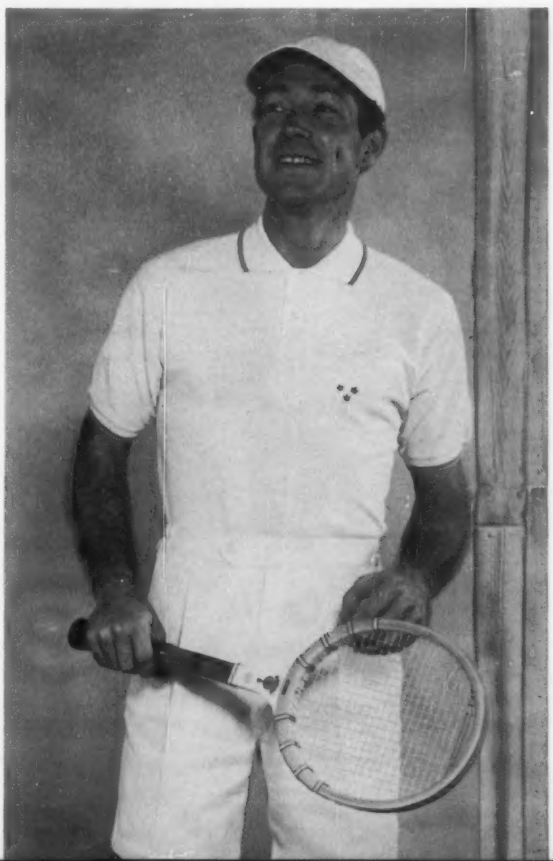
AUTOMATIC WASH-WEAR

Sales of wash-and-wear suits containing Dacron were given a promotional push during the spring and early summer of this year by Du Pont's widespread emphasis on "automatic wash-and-wear." "AWW" suits, as they may be called for short, are suits which fulfill these requirements, according to Du Pont, the originator and vigorous publicizer of the "AWW" concept: They must be cut from fabrics which contain a high percentage of polyester, acrylic or polyamide fibers (Du Pont specifies its own Dacron, Orlon or nylon); they must be tailored with enough care and with proper linings and trimmings so that they can take the rugged action of washing and tumble drying; they must be washed through the full cycle of an automatic washing machine and dried in a late model home tumble dryer.

From this treatment the garments can be expected to emerge, according to Du Pont, free from wrinkles, with shape and wanted creases retained, all ready to wear. Du Pont concedes, however, that some users might want to give their garments a little "touch up ironing." First introduced last year by Haspel Brothers, automatic wash-and-wear suits have caught on so swiftly that during 1958 they were manufactured by as many as 35 makers of men's wear and five cutters of boys' clothing.

More activity in wash-wear at the fiber producer level was foreshadowed last July when Chemstrand, maker of Acrilan acrylic fiber, recommended a blend of 70/30 Acrilan-rayon for wash-wear slacks. The company backed this blend ratio for both summer and fall weight garments for automatic as well as ordinary wash-wear. Extensive tests, Chemstrand stated, indicated that the specified blend would give satisfactory performance. Flannels of this blend are expected to do well in the coming autumn while even greater acceptance is foreseen for both spring and fall, 1959.

Many men, observers of consumers' habits have noted, buy and like wash-wear summer suits for their light construction which provides the desirable quality of coolness during warm weather. They also like them for their crease-resistance, their ability to "bounce back" overnight to presentable appearance after a hard day's wear in hot, humid weather. Not all wearers of wash-wear suits, however, go to the trouble of washing them automatically or otherwise. Many men apparently prefer to dry clean them, an



SMART AND COMFORTABLE—This tennis player's shirt is a knitted fabric of Verel, Eastman's acrylic fiber, combined with cotton.

informal check of wash-wear suit wearers by MTM editors this past summer revealed. This finding is borne out by a Du Pont survey late last year which showed that, of 1,500 owners of wash-wear suits, only 57% actually washed their garments.

KNITWEAR NOVELTIES

In the whole wide range of men's leisure garments where standards of appearance are more relaxed and a few wrinkles are not minded, the wash-wear idea has been making rapid progress. This autumn, for example, Courtaulds' Coloray solution-dyed rayon staple will appear for the first time in sweaters in a blend with Orlon, Du Pont's acrylic fiber. Manufactured by Brentwood Sportswear, the garments, made up in the new low button cardigan styles will be offered as automatic wash-wear. The exceptional color fastness of the Coloray component is expected to give the sweaters freedom from fading or streaking through.

Darvan also has been introduced in sweaters for men under the Arrow brand name. Cluett, Peabody has sold them to stores for the fall buying season in several styles including a sweater shirt, a bulky knit and two cardigan models. Priced at $13, the sweaters are said to have a soft, luxurious hand while being washable by machine without need for blocking or elaborate drying precautions.

In the huge volume market of cotton knit leisure shirts, the wash-wear idea is catching on with rapidity. Knitted shirts of 80/20 Orlon-cotton were brought out this year by at least six manufacturers of branded lines. A higher degree of freedom from shrinkage in laundering than all-cotton garments, permitting machine washing and drying, is the major selling point of these garments.

In uniforms and work clothing, the advantages of greater comfort and easier care permitted by the man-made fibers have been making headway. Early this year, the U. S. Post Office approved for letter carriers wash-wear summer uniform trousers cut from a lightweight blend of 70/20/10 Dacron-Orlon-mohair. Similarly, for the vast army of men in the United States who work as uniformed delivery, routemen and truck drivers, a new, lightweight sturdy uniform cloth brought promise of greater comfort during the warm weather months. Made of a 65/35 Dacron-rayon blend, the new fabric weighs only 5.8 ounces a yard compared to 8 ounce cotton uniform twills. It is, of course, washable with little or no ironing needed.

Acrilan, Chemstrand's acrylic fiber was combined with rayon in a 70/30 blend to produce a smart, comfortable and washable cloth for uniforms for more than 2,800 service station attendants of two large oil companies. For workers exposed to chemicals and acids, Chrysler Textiles, Inc. brought out a new line of 100% Dynel solution-dyed fabrics for utility clothing. The acid and chemical resistant Dynel fabrics, equipped with new anti-static and silicone finishes, include plain weaves, flannels, herringbone twills and basket weaves.

Another new application of Dynel is its use as a blending fiber to produce what Union Carbide calls "washable woolens". The fabrics which are said to be truly washable—with less than 2% shrinkage in hot water laundering—are woven of yarns containing 30% Dynel and 70% wool, and then stabilized by permanent heat-setting of the Dynel component. No chemical treatment is used. In addition to shrink resistance and a soft wool-like hand, the wool-Dynel blends offer press retention, good color fastness and satisfactory resistance to abrasion and tearing.

New ground was also broken by Dynel late last year in another application that made use of the fiber's thermoplasticity. Greenwood Mills introduced a range of apparel fabrics which combined Dynel with rayon in what was said to be a "controlled" blend. Tradenamed "Bondyne", the new cloths, when used in apparel, are said to keep their press and preserve a neat appearance longer than ordinary rayon or rayon blend fabrics. Greenwood offered the new fabric in flannels, gabardines, sheens, sateens, poplins, tropicals and challis. For slack fabrics, considered a major end use for the new blend, prices range from 65 to 85 cents a yard, depending upon the finish used.

PERMANENT COLOR—Use of Courtaulds' solution-dyed rayon staple combined with Du Pont Orlon gives this sweater bright, durable color.

VEREL IN SPORTSHIRTS

Verel, Eastman's "modified" acrylic fiber has been making progress in menswear as well as in women's apparel. McGregor has introduced a line of knitted sports shirts made of Verel blended with cotton. According to McGregor president, Harry Doniger, Verel contributes to the new shirt a soft hand, high moisture absorbency and ability to bear up under rugged wear.

In pile linings, Verel has also scored in the menswear picture. One maker of men's winter sportswear, White Stag, is using Verel deep pile linings in parkas, and in ski jackets and outdoor coats. Eastman expects an even wider use of Verel in deep pile linings in the coming fall and winter. Its advantages in this end use are said to be warmth, softness, light weight and resiliency.

Not only sportswear, but the whole broad area of men's winter clothing will increasingly be the market target of the man-made fibers. Encouraged by the success of Dynel-wool blends in light weight summer

suits, Worsted-Tex will introduce a new line of winter weight suits in more than 750 stores throughout the United States this fall. Cut from an 11 ounce 70/30 wool—Dynel flannel woven by Cyril Johnson Woolen Mills, the suits will have as their outstanding advantage, according to Worsted-Tex, a "built-in" press and shape retention.

In Canada, men's suiting fabrics of 55/45 Terylene polyester fiber and wool have been developed in weights of 10 to 12 ounces for all-year-round wear. Progress is also reported in developing Terylene-rayon blends in the proportion of 65/35 in both gabardines and twills for dress and utility slacks.

Meanwhile back in the United States, Du Pont has set the wheels in motion to win for its Dacron and Orlon a wider consumption in men's and boys' winter weight garments. Appearing in retail stores this fall, Du Pont reports, will be a greatly broadened variety of fall weight wool and Orlon fabrics. Most of these will be in the 10 to 11½ ounce range. Among them will be flannels, tweeds, worsted flannels, sharkskins, and for top coats, gabardines, whipcords, and tweeds. According to a Du Pont statement made last December, some 22 mills and six converters this year offered men's fall weight fabrics of Orlon and wool in both worsted and woolen types compared with only five mills in 1957.

NEW TYPE 64 DACRON

For Dacron also, Du Pont plans greatly broadened penetration of the men's and boys' heavier weight fabric market. To this end it brought out last month a new kind of Dacron, "Type 64", to supplement, but not replace the earlier Type 54. Available in three denier staple fiber and tow, the new Dacron sells for $1.51—ten cents more than ordinary Dacron.

According to Du Pont, the new form of Dacron shows a marked increase in resistance to pilling, a property that makes it especially adapted for use in heavier, more loosely constructed fabrics such as singles yarn sheen and plain gabardines, sharkskins, Bedford cords, and other fabrics characterized by a surface cover nap such as mill finished and unfinished worsteds, basket weaves and worsted and rayon type flannels.

While Type 65 Dacron has somewhat lower tenacity and abrasion resistance than ordinary Dacron, it has double the strength and greater abrasion resistance than apparel wools. The new fiber offers potentially greater versatility for dyeing in that dispersed colors and selected cationic dyes can be used. So far, however, only a limited number of suitable cationic dyes are available for it. Du Pont reports that work is under way to expand the color range.

Type 64 Dacron is not satisfactory for blends with cotton—a major reason why it will supplement but not replace ordinary Dacron, now so widely used for this combination. It is not suitable for processing on the woolen system or for knitted fabrics. By and large, Du Pont recommends it for blending in worsted yarns and with rayon. Production of the new fiber is currently under way at Du Pont's Kinston, N. C. plant, and it is expected that fabrics containing it will reach consumers in apparel during fall, 1959.

Another Du Pont variation on an established fiber, its nylon 420 staple introduced last year, has done so well that the company recently added new machinery

LESS WEAR AND TEAR—Work clothes such as these will wear longer, tear less easily because of use of Du Pont's new 420 nylon in warp yarns.

to produce more of it. Described as a "fortifying fiber", the new nylon has found its first use in blends with cotton and rayon. In this function it is reported to add greatly to the wear life of such fabrics as work and leisure twills and denims, and rayon outerwear for boys. Recently it has expanded into men's cotton underwear, and greater use in rayon slacks, boy's play clothing, cotton outerwear shell fabrics and sewing threads is shaping up.

Among the opportunities to use new fibers to achieve new and potentially profitable fabric effects are those presented by Rhovyl, the polyvinyl chloride fiber now on sale in the United States through Rhodia, Inc. of New York City.

WHAT RHOVYL CAN DO

Rhovyl PVC staple fiber comes in two forms. The first of these, Rhovyl-55 has a shrinkage potential up to 50%. It is being successfully used in cloth with a raised surface design, so-called "three dimensional fabrics", finding their earliest acceptance in upholstery, draperies and fabrics for the hat and shoe industry. In France, where the fiber originated, it is used in the upholstery of Citroen cars. The three dimensional effect is also being used to obtain raised texture effects in axminster carpets.

In apparel fabric for both men and women, Rhovyl-55's shrinkage properties have found useful application in providing the "guard hairs" in fur-like synthetic pile fabrics; in blending with cotton to produce a tightly woven weather-resistant outerwear fabric for winter leisure wear. Similar constructions have also been used for durable work clothes possessed

of the high resistance to chemical attack which is one of the characteristics of Rhovyl.

Another promising use for high shrinkage Rhovyl is in sueded fabrics with a dense, soft nap. These fabrics are knitted on interlock machines using yarns combining 30% Rhovyl-55 with rayon or nylon. The napped surface can be embossed with designs.

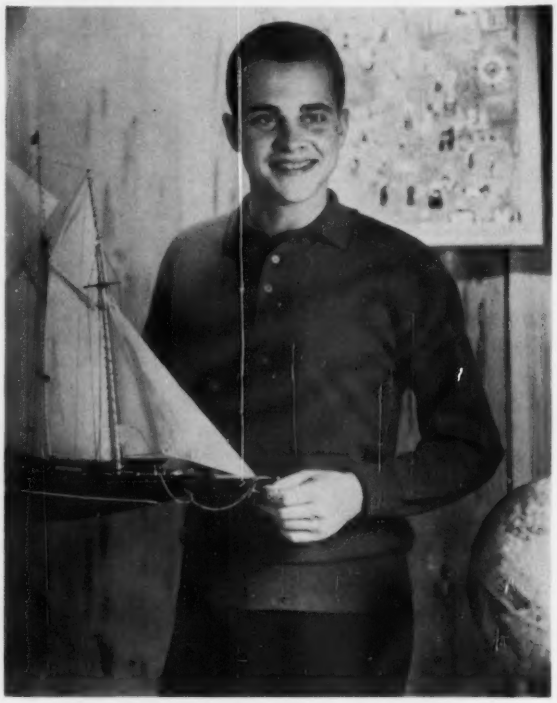
The second form of the fiber, Rhovyl-T, is without shrinkage properties. Its major end uses are in apparel where it can be blended successfully with wool. It has softness, dimensional stability and a high degree of thermoplasticity which enables Rhovyl-wool blends to be set in sharp permanent pleats. In a 50/50 blend with wool it is expected to make important gains in sweaters. Rhovyl is priced at $1.18 a pound in its white natural shade, and $1.40 to $1.50 in a wide range of solution-dyed colors.

NEW FIBERS TO WATCH

The story of recent developments in apparel fabrics would not be complete without mention of several new fibers coming over the textile horizon. Some months ago Du Pont revealed that it has under development a new experimental elastomer fiber, known as Fiber K. It is expected to find use in foundation garments, surgical hose and other elastic products where its properties of high elongation, excellent recovery, good flex life, abrasion resistance and tensile strength may be of value. Production at present is on a limited scale.

One of the first uses of the new elastometer yarn is reported to be in a power net combined with nylon brought out by Penn Elastic Co. The net has been used in undergarments by Fortuna Foundations introduced this spring. It is said to be light in weight and impervious to body acids that attack natural rubber except chloride.

Entering a field until now solely occupied by Du Pont, Beaunit Mills announced plans to produce a polyester fiber. The company, a major producer of rayon, will add equipment at its Elizabethton, Tenn., plant to turn out a reported 10 million pounds of polyester fiber a year. The fiber will be made from resins supplied by Goodyear Tire & Rubber Co.



SWEATER-SHIRT COMBO—Darvan, Goodrich's new fiber, makes this practical garment that can be washed by hand or machine.

Among the acrylics there is also a new fiber. It is Creslan, the long-heralded and long-delayed fiber of American Cyanamid Co. The Creslan plant at Pensacola, Fla., is approaching completion and is expected to begin turning out fiber late this year. It will have a capacity of 27 million pounds of staple and tow with provision for double that amount built into the original design. Meanwhile, Cyanamid has set up a marketing organization and office in New York to sell its fiber. Pending completion of the Pensacola plant Creslan is being made at a pilot plant in Stamford, Conn. This fall the first Creslan fabrics will be introduced commercially—one in womenswear and another in menswear. A broadening of these end uses is expected to include as many as 50 applications in the near future. Creslan prices are: 2 and 3 denier $1.28; 5 denier $1.20; 15 denier $1.05.

A development that opens new possibilities of improving the serviceability of both apparel and home furnishings fabrics was made known recently by Celanese. The company was granted an exclusive license to incorporate Permachem, an anti-bacteria chemical into certain of its acetate, Arnel triacetate and rayon yarns, during their manufacture.

Celanese will incorporate Permachem in some of its special yarns for lingerie, carpeting and other apparel and home furnishings fabrics. The chemical is applicable to yarns of all deniers, both filament and staple fiber, including those that are solution-dyed. Major initial uses foreseen by Celanese, however, will be in certain acetate filament yarns for tricot goods. It is said that the bacteria inhibiting potency of Permachem remains through repeated dry cleaning and laundering of fabrics.

IVY LOOK FOR JUNIORS—Reeves uses American Viscose rayon to weave these jacket and slacks fabrics in coordinated stripings and solid color fabrics.

MAN-MADE FIBERS IN HOME FURNISHINGS

IF SOMEONE WERE TO ASSERT that home furnishings, including domestics, is the area where man-made fibers are making their latest and most notable inroads, he would be hard to contradict. In the current era of larger families and a seemingly permanent boom in home building, Americans are more than ever home-centered. As a result, there has been a hunger among consumers for new ideas, new textures and new colors in the wide variety of fabrics used in the home. To this demand the industry has responded with vigorous creativity. Consequently the broad field of home furnishings fabrics is alive with news of new and exciting developments.

In draperies, rayon solution-dyed staple fiber such as Courtaulds' Coloray and American Viscose Corp.'s Colorspun, continued to be popular with designers and manufacturers. The high degree of lightfastness of fabrics made with solution-dyed rayon, is one of the major reasons for its success in this field. Equally important is the wide range of colors which can be obtained by blending the basic solution-dyed colors available from fiber producers. Courtaulds reports, for example, that more than 2,000 colors, both solids and mixtures, have been obtained by blending Coloray. For the third successive year, Courtaulds has matched in Coloray fabrics the 34 decorator colors sponsored by the magazine "House and Garden" and included in its circulating resource list.

The color possibilities of Courtaulds Coloray was skillfully utilized by Fuller Fabrics in a drapery collection sold in piece goods departments throughout the country. Inspired by the painting of the Dutch abstract artist Mondrian, the draperies featured a range of brilliantly colored geometric designs. Fuller has also brought out this summer two new drapery fabrics made with Owens-Corning glass yarns given greater bulk by a texturizing process. The new texturized yarns, which are tradenamed "Aerocor" are treated by the Du Pont Taslan process to have a spun yarn appearance and handle. The availability of the new yarns has increased the interest of mill people, converters and designers in glass yarns for decorative purposes.

Fuller's two new fabrics made with Aerocor yarns employ a new idea in draperies. It presents a single unrepeated design extending the width of two center panels. This is flanked by corrating solid color panels in whatever width the homemaker desires. The designs on the center panels are adapted from the work of well-known painters. One is a harbor scene available in five colors. Two others are abstractions. An advantage of these Fuller "art of the wall" draperies is that they enable the homemaker to put most of her available money into the print panels, and then purchase solid lengths of drapery at minimum cost for the color-correlated side panels.

Gains made by its Fiberglas yarns in draperies in recent seasons has emboldened Owens-Corning to plan an enlarged merchandising and advertising effort to strengthen its position in this market. The program will include retail promotion kits and sales training courses for retail sales persons.

Among the newest style innovations in drapery fabrics has been the use of clear Du Pont Mylar polyester yarns, such as Metlon's new "Crystal Mist", to give transparency and sheen to casement cloths. One manufacturer, Forster Mills, has used Crystal Mist to weave transparent panels one inch wide alternating with two inch panels of ordinary yarn. Light passing through the Mylar strips becomes part of the fabric design.

Another recent Du Pont innovation, its Ondule rayon filament yarn characterized by a random slub, has been used in a casement cloth by Cohn-Hall-Marx. In the fabric, Ondule is employed in the filling with a spun rayon warp. In Canada, Bruck Mills has produced boucle solid color and printed curtain fabrics using Terylene polyester fiber of Canadian Industries, Ltd. Advantages are said to be freedom from shrinking and stretching in washing, brief drying times and no need to iron.

LONG-LASTING CRIMP—The higher pile borders on this area rug are achieved with Avicron, the new crimping yarn of American Viscose Corp. Laundering renews Avicron's crimp.

CUSHIONED CLOTH—This "three-dimensional" upholstery fabric provides resilience and air circulation for greater comfort. It is made of U. S. Rubber's Trilok cloth which uses polyethylene high shrinkage yarn to give "puffed" surface effect.

In the United States, Du Pont Dacron, of course, continues to be a leading fiber for marquisette curtains. One of the most recent innovations in this field has been the introduction of double dimity weave Dacron curtains in the ready-made market. Also using Dacron yarns in the warp for strength combined with fillings of novelty yarns of rayon and acetate, mostly solution-dyed, Schwarzenbach has brought out a range of new fabrics for draperies which are reported to be going well.

Perhaps the most novel development in draperies in recent months has been the introduction of "Feutron 63", a hand washable synthetic felt for curtains and draperies by American Felt Co. To make the fabric, American Felt combined Dacron and rayon in a felted nonwoven structure for a drapery that is said to shield a room from glare and to absorb sound. The cloth comes in printed designs and solid colors. For the solid color fabrics, Courtaulds Coloray solution-dyed staple is used as the rayon component.

CAPROLAN UPHOLSTERY

In upholstery fabrics for both home and institutional use man-made fibers are being employed in many new and promising ways. Allied Chemical's Caprolan nylon heavy denier yarns, for example, are finding growing acceptance in upholstery cloths appearing currently on the furniture of a number of leading makers. Valentine Seaver uses Caprolan upholstery fabrics woven by Baldwin Manufacturing Co. to cover his "Valentine Seaver Originals," a line of high quality modern sofas and sectionals. Similarly, Caprolan nylon upholstery produced by Collins & Aikman has been used by two other makers of fine furniture, Brooks and J. L. Chase.

Many of the upholstery fabrics made with Caprolan and finding their way to consumers on fine furniture combine Caprolan heavy yarns and Caprolan yarns texturized by a number of processes that give crimp, loft and bulk. In upholstery uses, advantages cited for Caprolan yarns include long appearance life because the Caprolan yarns are dyed all the way through not merely on the surface of the fiber; the yarns are said to yield a fabric that is highly scuff-resistant, resists stains, is insect-proof and has a high degree of resilience.

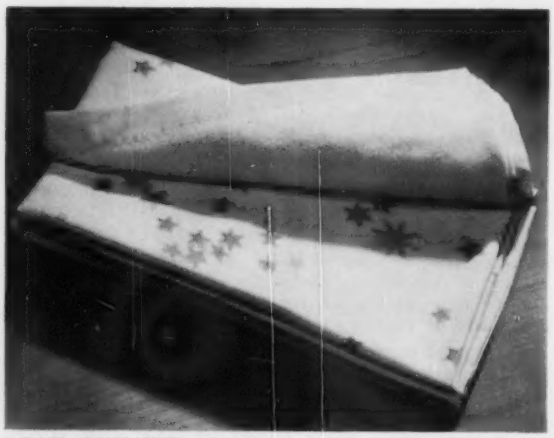
Nylon originating with Du Pont is also used in the face yarns of three outstanding contemporary upholstery fabrics brought out by Greeff. Called "Trilogy," the fabrics are said to have a soft yet resilient hand. They include a two-color textured weave, a circle pattern in a needlework weave, and a multi-color cross stripe. All three come in nine related colors.

In upholstery also so-called "three dimensional fabrics" marked by raised surface patterns have obtained widened acceptance in recent months. One producer, the Textile Division of United States Rubber Co., markets a range of these cloths under the tradename "Trilok". The three dimensional, raised surface effect is obtained by using high shrinkage polyethylene or other yarns in combination with a variety of fibers used ordinarily in upholstery constructions.

As more of these fabrics are produced, claims of patent infringement and lawsuits appeared in the Federal Courts. In one such suit brought by Chicopee Mfg. Corp. against Columbian Fiber Mills, the U. S. District Court for the middle district of Georgia ruled that certain patents covering "3-D" or "puffed" fabrics held by Chicopee were not valid. The court's decision aroused considerable interest throughout the textile industry since U. S. Rubber Co. and Bates Mfg. Co. are involved in litigation over the validity and possible infringement of other patents relating to thermoplastic puffed fabrics held by these companies.

Rhovyl-55, the high shrinkage polyvinyl chloride fiber sold in the United States by Rhodia, is also used to provide the shrinkage fiber needed to create three-dimensional upholstery fabrics whose raised surface effects are said to promote resilience and to provide comfort-promoting pockets of air.

Possibly the greatest area in home furnishings of new contributions and fast-paced developmental activity by the man-made fibers is the important segment of carpets and rugs. Here hardly a month has gone by in the past year without some significant



VEREL BLANKET—Eastman's new acrylic fiber, Verel, makes this soft, light printed blanket that also doubles as a bedsheet.

QUALITY CHECK—These technicians are studying an experimental run of carpet made of Celanese's twist-set acetate carpet fiber combined with nylon. The place is Celanese's big development laboratories at Charlotte, N. C.

new development taking place. For one thing, the range of fibers successfully being used in carpets has continued to spread. Rayon and nylon have been joined by the acrylics and a revived use of acetate.

In tufted carpets, of the lower priced variety, more and more nylon has been used in recent months. Spurred by the intense competition that exists in carpet tufting today, more and more manufacturers have latched on to the sales-generating glamor of the word nylon in cooperation with retailers. Virtually all the large tufters have nylon fabrics in their lines, and in many cases prices tend to shade down to figures once believed impossibly low for nylon floor coverings.

The drive to cut prices lower and lower for nylon tufted carpets has led to the widespread use of nylon waste, informed trade observers report. Carpets containing waste nylon, it is pointed out, will not perform as well as consumers expect of nylon; it is thus feared that the use of nylon waste may do immeasurable harm to the status of nylon and, indeed all man-made fibers, in the important end use of floor coverings.

It is hoped in trade circles that the cut in price of nylon carpet staple in August by two major producers, Du Pont and Industrial Rayon, may effectively check the use of waste. The price cuts bring first grade nylon carpet fiber to less than $1.10 a pound; meanwhile it is reported that the demand for nylon waste in recent months has moved the price from about 40 cents to 80 cents a pound. Other reasons cited for the reduction in price of nylon carpet staple are the desire of fiber producers to enlarge their market in carpets in the face of growing competition from Acrilan and other acrylics.

Despite problems raised by the use of nylon waste, and competition from the acrylics, there have been a number of positive signs of progress on nylon's part in carpet end uses. Industrial Rayon, for example, reports that it is continuing its program aimed at the development of new styling for nylon carpets to supplement its work in twist-set frieze fabrics which has already done much to broaden nylon's use in carpets.

Industrial, which has been deeply concerned over the nylon waste problem and which has taken the lead in combatting it, also announces that it will continue its work of accumulating factual performance data on nylon carpets. Such data will be presented to the trade and to consumers in order to bring about a greater understanding of nylon's value in carpets.

In the past year both Industrial and Du Pont brought out a full dull carpet nylon to supplement bright and semi dull lusters. The new dull fiber enables designers to broaden styling effects by combining lusters to achieve tone-on-tone fabrics. Another important contribution to nylon's progress in carpets by Industrial was the introduction of a 22 denier per filament carpet staple in bright and dull lusters. In addition to a number of processing advantages, the new 22 denier staple imparts improved crush and recovery properties to carpets. It is already being used widely in blends with other types of nylon and with wool where it is said to provide fuller coverage and a firmer handle than other deniers of nylon staple.

Possibly the most advanced development in the use of man-made fibers in carpets is the growing trend to employ *filament yarns* given bulk, loft and crimp by a variety of processes which are usually considered to come under the broad term of "texturizing". Both nylon and acetate filaments are being used in this way.

For detailed reports of these techniques applied to nylon, see "New Yarns Widen Fabric Horizons", in this magazine Dec. 1957, p. 63. For their application to acetate see "Lofted Acetate in Carpets", in our Nov. 1957 issue, p. 35.

This month will see the first appearance of Allied Chemical's textured Caprolan nylon filament yarn in a tufted carpet offered in leading stores throughout the country. Made by Croft Carpet Mills of Fort Oglethorpe, Ga., the tufted 100% nylon fabric, tradenamed "Resort", comes in cut pile styling in 11 colors and widths of 12 and 15 feet, to retail at $12.95 a square yard. The texturized filament yarn used in the new carpet was processed from Allied's nylon by Leon-Ferenbach, Inc. Allied, which has been a leader in the research into texturizing of heavy denier nylon filament, regards the first commercial marketing of a nylon texturized carpet as a major event in the floor covering field. It plans an extensive advertising

IMPROVED STEAMER CHAIRS—Webbing of Firestone's Velon saran yarns is used in these modern steamer chairs —the first improvement in these chairs in 25 years.

campaign to support this new kind of carpet in consumer and trade circles.

The revival of acetate staple as a carpet fiber was furthered by the development by Celanese of its trademarked Celaire twist-set acetate which, combined with nylon, is said to yield carpets with the appearance and performance of floor coverings priced as much as 50% higher. Celanese has licensed carpet manufacturers to use Celaire yarns. The licensing agreement stipulates that 50% or more of the pile yarns must be virgin twist-set acetate staple fiber of 17 denier and that the other pile yarns must be capable of being twist set. The licensing agreement also covers the type of backing, resistance to abrasion and soilage, color fastness and ability to withstand commercial shampooing.

At the June home furnishings show in Chicago, five manufacturers licensed to use the Celaire trademark displayed floor coverings made in conformity to Celanese's requirements. The carpets had twist set acetate content of 70% to 80% of their pile yarns with the remaining fiber content of the pile being nylon. The manufacturers were Bigelow-Sanford, Croft, Katherine Rug Mills, G. H. Rauschenberg Co. and Suwanee Carpets.

NEW CARPET IDEAS

Meanwhile, the complicated carpet scene has been made even further complicated by the growing importance of acrylic fibers as floor covering materials. A successful use of acrylic fibers in rugs that has grown considerably since last year, are scatter rugs with a fur-like pile such as Princeton Knitting Mills' line. The small, deep-pile rugs combine two acrylics —Dynel made by Union Carbide, and Acrilan, Chemstrand's fiber. A number of other mills have brought out similar furry rugs using Acrilan.

In broadloom carpeting and larger area rugs, Chemstrand has reported continued rapid expansion in the acceptance of Acrilan. In fact, demand for Acrilan by carpet makers has been strong enough, Chemstrand stated early this year, to indicate that the fiber would be in short supply throughout 1958.

To protect its newly won success in carpets, Chemstrand in June set up a licensing program aimed at insuring performance standards for carpets containing its acrylic. The standards require that the face yarn of approved fabrics must contain a minimum of 70% Acrilan, and that other fibers in the blend must be limited to fibers having not more than 5% moisture regain at 75°F. and 65% RH; or that the remaining fiber be carpet grade wools. In addition, the licensing standards provided specifications for average pile thickness and minimum pile weight per square yard. Nine major carpet manufacturers, Chemstrand revealed in June, had been licensed under the new arrangement. Licensees will be entitled to display the Acrilan trademark on their carpets.

Another new acrylic, Eastman's Verel, also has its eye on the poundage potential of the carpet market. After an extensive development and testing program by Eastman, Verel's usefulness in carpets was sufficiently demonstrated to persuade one major manufacturer, Callaway to bring out two new fabrics in 100% Verel constructions to retail at $10 and $13 a square yard.

All the news in floor coverings has not been made by the newer man-made fibers. Rayon, by now an established staple of carpet making, has been breaking new ground by the introduction of new colors in solution-dyed staple especially designed for carpets. Hartford Rayon Co. manufacturer of "Kolorbon" heavy denier staple in solution-dyed colors, late last year introduced its new group of vibrant, high style colors entitled "Forecast for 58". The eight new colors in the "Forecast" group were developed for use individually, in combinations with each other, and in combinations with Hartford's earlier group of 15 colors.

Coincident with the introduction of the new colors, Hartford offered its 8 and 15 denier staple fiber for use in drapery and upholstery fabrics. The company pointed out that these fibers, with "built-in" color, could offer much to designers of decorative fabrics seeking the hand-loomed and "big yarn" appearance which has been growing in popularity with home makers. By fiber blending, it was noted, the broad range of Hartford solution-dyed colors provide designers with the possibility of creating highly individualized colors for draperies and upholstery as well as carpets.

The movement to broaden the possibilities inherent in the use of solution-dyed colors in carpets was given further impetus this spring by American Viscose Corp. It announced the availability of eight new colors in its Super-L carpet staple line of solution-dyed shades. Incidentally, this company is the only fiber producer offering a co-ordinated line of solution-dyed colors in rayon staple, rayon filament and acetate filament yarns.

Fabrics intended for the especially taxing demands of outdoor use have also enjoyed opportunities for

better styling and longer use life as a result of gains in the man-made fibers. Among these developments has been the introduction of awnings made of Saran 909. According to National Plastic Products Co., a producer of saran yarns, the new awnings made with solution-dyed colors are gaining in popularity in industrial and commercial applications. Introduced three years ago on a limited scale primarily for residential use, the awnings have been improved to the point where they are now suitable for any installation where an awning is needed.

Among the advantages of saran as an awning fabric are a high degree of fade resistance; non-inflammability; greater translucency than cotton duck, allowing transmission of more light; resistance to rot and mildew in any kind of weather thus eliminating seasonal taking down. Saran's strength and durability makes the awnings long-lasting. Saran continues to be used as webbing for outdoor furniture, and combined with rayon and nylon it is finding wider acceptance in automotive upholstery fabrics.

Meanwhile, linear polyethylene fabrics are gaining ground in summer furniture and other outdoor uses. Extensive testing, development and experimental work carried on by such producers as National Plastic, Reeves and Dawbarn is leading to widening use of linear polyethylene in outdoor functions. Ribbon yarns in 750, 1000 and 1500 deniers are said to provide improved flexibility and resilience over polyethylene monofilaments as well as greater latitude in decorative and novelty effects. Such ribbon yarns, Dawbarn reports, are going into 1959 autos and trucks; in knitted constructions they are finding increased acceptance in shoes, belts, handbags and similar applications.

BETTER AWNINGS—Awnings woven with the new saran 909 yarns of National Plastic Products Co. are finding growing acceptance in industrial installations.

PROGRESS IN BLANKETS

In blankets, once the province of wool and cotton, the newer man-mades have come to be equally important as natural fibers. Acrylics such as Du Pont's Orlon and Chemstrand's Acrilan, are, of course, well-established as blanket fibers. Newest of the acrylics to find acceptance in blankets is Eastman's Verel, which has been brought out in a new line by North Star Blankets, a division of Catham Manufacturing Co. The Verel blankets are said to possess softness, a high degree of warmth, resiliency and immunity to moths and mildew.

Early this year, Chemstrand brought out Acrilan Mark III, a new fiber specifically designed for blanket use. It is said to offer a high degree of whiteness for easy dyeing in pastel shades, and also greater loft. For making quilts with the decorative values of metallic yarns, Lustre Yarns, Inc., a division of Standard Yarn Mills, introduced a flat Mylar metallic sewing yarn.

For more varied styling effects in bedspreads and bathmats and for use in a variety of fringed material for other products such as chenille housecoats, American Viscose early this year introduced a new continuous filament rayon yarn with a permanent crimping property. Avicron, as it is called, has a crimp which is activated by normal bleaching and dyeing processes. The yarn is said to shrink and twist on its axis and lock tufts securely to base fabrics. It has the unique additional property of re-activating its crimp when wetted or laundered.

The crimping properties of Avicron gives it the appearance of a looped pile, but it is actually cut pile with a curled surface resembling Persian lamb. Along with its styling possibilities in offering opportunities for a wide range of new textured surface effects, the new yarn has advantages in manufacturing. Because it is a filament, and not a spun yarn, it gives uniformity in denier and reduction in loss of tufts during production. It requires no special machinery and can be used in ordinary tufting processes. In rugs it has already been successfully used by Cabin Crafts, and in bedspreads by Morgan-Jones, Lawtex and Minette Mills.

Nonwoven fabrics are also finding new uses in home furnishings. Lantuck, a Wellington Sears nonwoven, for example, is now being used as the base for a vinyl impregnated wall covering brought out by Birge Co. Buffalo, N. Y. The new product is said to combine the appearance and unlimited styling possibilities of wallpaper with the durability of vinyl backed woven fabrics.

In a renewed attempt to use nylon's long-wearing and quick-drying properties in the important end use of bedsheets, two large mills, Cannon and Pepperell, this month will introduce woven sheets and pillowcases containing nylon yarns texturized by Du Pont's Taslan process. The texturized nylon is used in every other warp end in the woven sheets, and comprises 25% of the yarn used. The balance is ordinary nylon. It is hoped that the use of the bulkier texturized nylon will overcome the weaknesses of slipperiness and clamminess which have been cited as causes for the failure of nylon sheets to win consumer acceptance in the past.

MAN-MADE FIBERS IN INDUSTRY

IN THE UNGLAMOROUS AND OFTEN "HIDDEN" industrial uses of fabrics man-made fibers have been making steady gains. With the exception of tire cord and tarpaulins, virtually all the industrial end uses to which man-made fibers are going are, considered separately, small markets. But the total poundage of fibers consumed in industry is substantial and growing.

In most cases, to carve out a market in industrial functions for a man-made fiber requires painstaking development efforts on the part of fiber producers. To persuade an industrial user to turn from an older fiber or fabric and try something new requires a convincing demonstration that the new fiber can do a better job, or a less costly job or both.

This has been done successfully in the broad field of tarpaulins used as protective fabrics as in trucking and maritime uses, and generally for the protection of expensive equipment stored outdoors. Coated nylon fabrics have made substantial inroads in this field replacing cotton in many instances. An example of this shift to nylon protective fabrics was the decision late last year of the gigantic Consolidated Edison Co. of New York City to order 1,000 of these vinyl-coated tarpaulins after trying 25 for 18 months. Consolidated Edison uses the cloths, which measure 12 by 18 feet, to protect expensive equipment such as transformers and generators in the process of installation.

In construction operations to protect new concrete against sudden blasts of cold air and to allow it to set without freezing, neoprene-coated nylon tarps are used by many construction firms. Such builders are reported to like the tear resistance of these fabrics plus the fact that they do not freeze since they do not absorb water.

Another use for vinyl-coated nylon has been as a protective cover for jet engines manufactured by Pratt & Whitney. The engine is cradled in a shipping buck and covered with the tarpaulin. The elimination of packing and the great reduction in shipping weight are said to result in substantial savings.

In major league baseball stadia, coated nylon tarps are used to protect playing fields against rain. At Comiskey Park, where the Chicago White Sox play, a coated nylon fabric 25,000 square feet in area is used to protect the field against sudden rains. For circuses, summer music shows, and generally wherever large tents are required, coated nylon is coming into wide use. A related application of coated nylon is its use in "air houses," large structures for storage purposes maintained by air pressure supplied by a pump in constant operation.

Dacron, Du Pont's polyester fiber, is also finding use in coated fabrics. Seeking a "skin" fabric for ligher-than-air ships that would possess a higher strength per weight ratio than natural fiber fabrics, the Navy's Bureau of Aeronautics tested Dacron in an anti-submarine patrol blimp. After four months of trial flights, it was found that the Dacron fabric reduced helium loss to one-half that of fabrics previously used.

The fabric used in the test comprised two layers of Dacron cloth combined with an inside coating of neoprene and an outside coating of aluminized "Hypalon" synthetic rubber. The total weight of the laminated fabric was 15½ ounces per square yard. The lighter weight of the Dacron fabric permitted carrying more fuel for longer flights.

In uses such as truck covers and oil rig shelters where constant flexing takes place, one of the weaknesses of vinyl-coated nylon and Dacron fabrics has been lack of a durable adhesive. The flexing of these fabrics has caused separation of the vinyl from the base fabric, resulting in premature product failure.

Now Du Pont has come up with a new adhesive which shows results as high as four times the strength of current adhesives in use. Known as NVD adhesive, it is a mixture of commercially available ingredients and is simple to prepare. *A brochure describing the properties, preparation and application of the new adhesive may be obtained by writing the editors.*

MAN-MADE FIBER ROPES

Ropes and cordage of man-made fibers are coming increasingly into use. Nylon ropes are by now well established and are reported steadily gaining acceptance wherever heavy duty ropes are needed. For towing both on the ocean and inland waterways, Allied Chemical reports that its heavy Caprolan yarns, available in deniers from 2,100 to 15,000, are being fabricated by a number of major manufacturers into tow ropes that combine greater lightness and higher tensile strength than conventional towing lines.

Other advantages of these gold-colored Caprolan tow ropes are said to be extra dry strength with no sacrifice in elasticity, wet strength retention up to 95% of dry strength, longer work life, easy handling, and superior flexing. Caprolan heavy yarns, it is pointed out, cut mill plying costs and eliminate need for costly finer denier inventories. They are available on knotless 10-pound non-returnable tubes. Other uses in which Caprolan heavy yarns are reported to give superior performance are seine twine, conveyor belts, airhouses, fire hose, webbing and safety belts.

Dacron is also being used for marine tow ropes. A year-long test of 6½ inch circumference lines by a Portland, Me., towing company has revealed greatly superior performance of the Dacron lines, Du Pont reports, as contrasted with manila ropes. The towing company's records show that the average wear life of 8 inch manila lines is 200 docking or undocking jobs. In the test, a Dacron line is said to have remained in service for 1667 docking operations.

Rope and cordage continue to be a major use for linear polyethylene monofilaments, and it is expected by producers of linear polyethylene such as Dawbarn and Reeves, that this use will continue to expand. Meanwhile, polypropylene yarn, brought into commercial production recently by Reeves, is expected to find satisfactory use in ropes. According to Reeves, one major rope maker, Plymouth Cordage Co., reports that "polypropylene has particularly good elongation properties which reduce creep under constant load. It is exceptionally light (specific gravity 0.90). Like polyethylene, it does not lose strength when wet, and it cannot freeze because it does not absorb water."

Other potential applications for Reeves' new Reevon Series 800 polypropylene filaments are carpet fiber, upholstery yarn, filter materials, and fabrics for hats and caps. Reeves suggests that a woven polypropylene fabric laminated with polyethylene would make a light and strong material for luggage, small boat hulls, counter tops and wall coverings. In Germany and Italy polypropylene yarns are being evaluated for sheer ladies' hosiery.

Reeves new polypropylene filaments are available in single strand sizes ranging from 0.004 to 0.020 millimeter diameters. Multifilaments also are available ranging from 0.003 to 0.008 millimeter diameters for each filament. Cross section of an individual strand can be either round, elliptical, or flat. Other shapes can be made on request. The new yarn can be supplied either in its natural clear color or pigmented in a wide range of colors.

The following properties of the yarn have tentatively been announced by Reeves: specific gravity, 0.90; melting range, 325 to 335°F; softening point (without load), 280 to 300°F; decomposition, above 550°F; tenacity, 5 to 7 grams per denier; ultimate elongation (adjustable on request), 15 to 25 per cent; strength, "as is", 60,000 to 85,000 psi; strength-rupture, 70,000 to 90,000 psi; shrinkage (adjustable) at 165°F, 4 to 8 per cent; shrinkage at 212°F, 10 to 15 per cent.

BIG COVER UP—Tarpaulins of nylon coated with neoprene are relied on to protect these hills of rock salt from Canadian snows. Salt is stored here for later use thawing icy highways.

DYNEL FILTER CLOTH

In fabrics for filtration uses, Dynel, the acrylic fiber of Union Carbide Chemicals Co., has been finding widening acceptance. In point of yardage consumed, swimming pool filter fabrics stand high in this use of Dynel. The rapid growth in recent years of both public and private pools has given rise to a demand for durable, maintenance-free filters. Dynel filter cloths, according to several leading makers of filters, have proven themselves extremely advantageous in this end use. Stitched into bags, the Dynel cloth covers perforated grids to support a cake of diatomaceous earth which serves as the filter medium. Water from the pool circulates around the grids to trap bacteria, algae and other foreign matter in the cake. The tightly woven Dynel cloth retains both the filter medium and impurities but permits a free flow of clean water to return to the pool.

Dynel's popularity in such filters is a result of the fiber's ability to withstand deteriorating effects of acids and alkalies plus its refusal to shrink or lose strength when wet. One pool filter maker reports excellent results with Dynel even after 18 months of continuous use.

In the rapidly growing use of air conditioners, too, Dynel filters are being increasingly employed. At least seven major makers of air conditioners this year used filters of Dynel as standard equipment. Made by Fiber Bond Corp., the filters are composed of specially processed Dynel fibers in a half-inch batt bonded to an open netting of stiffened, fire-resistant cotton. Fiber Bond believes that Dynel's superior effectiveness as a filter medium is due to the unusually irregular and flat cross section of the fibers. This property causes thousands of sharp changes in air direction and consequent high dust impingement on the fiber surfaces.

Dynel filter fabrics are also proving highly efficient in filtering caustic mercerizing solutions in textile mills and, in a new type of nonwoven felt, for the filtration of aniline pigments and dyestuffs.

Dynel's high resistance to harsh chemicals, acids

DURABLE BAGS—Centrifuge bags of Dynel, Union Carbide's acrylic fiber, are used in chemical plants for extracting water from chemicals. Dynel bags outlast former bags 14-fold.

and alkalies has led to its successful use in centrifuge bags by National Polychemicals, Inc. The company reports that Dynel bags in centrifuges used in a spin-drying process for chemicals, tested over a five-month period, endured an average of 200 cycles per bag. Previously used bags often failed during a single rotation cycle of the centrifuge.

A new area of usefulness for Dynel in industry was opened recently with the announcement by Union Carbide of a broadened technique for making molded, embossed of stiffened shapes of Dynel by a simple, heating, shaping and cooling process. Originated several years ago to mold men's summer hats, the process utilizes the thermal pliability of Dynel. It is expected to find useful applications in the production of radios, furniture and many industrial parts. (For a more detailed report on this process, see MTM June '58 p. 33).

In tire cord, by far the most important industrial use for man-made fibers, both rayon and nylon offered improvements in the intense competition between these fibers for this 400 million pound market. Virtually all producers of rayon tire yarn moved rapidly into expanded output of the improved kind of high tenacity yarn known generally in the industry as the "super-super" type. It is said to possess as much as 50% more strength than earlier rayon tire yarns, and to have a greatly increased resistance to fatigue and impact deterioration in use. Generally, the new yarn is being produced in 1100 denier as contrasted to the 1650 and 2200 denier yarns previously used in rayon tires. With the lighter denier rayon cord, it is possible to construct a tire of greater carcass strength with lighter body weight. Lighter tires are generally accepted as running cooler and providing an easier ride.

Meanwhile, the two major producers of tire nylon, Du Pont and Chemstrand, continued their separate efforts to enlarge their sales for this end use which last year accounted for 85 million pounds of nylon. Early in the year, Du Pont placed in operation a new nylon plant in Richmond, Va., with a capacity of 40 million pounds a year of heavy denier nylon for the tire cord and other industrial uses. Shortly afterwards, Chemstrand made available to tire manufacturers and other industrial users a new nylon yarn in 840 denier and 140 filaments. The new yarn, designated as "RHB" type was said to offer greater strength, higher thermal capacity and better adhesion values than Chemstrand's "HB" type which still remained available for customers who wanted it. In May, both Du Pont and Chemstrand reduced the prices of nylon tire yarn by ten cents a pound, bringing the price to $1.20.

While these developments were taking place, an entirely new element in nylon's use in tire yarn appeared. Allied Chemical, producer of Caprolan nylon, revealed that it had culminated a long program of research by producing the first caprolactam tire yarn accepted for use by tire makers. The yarn tradenamed "Golden Caprolan" is now being sold to all major American tire manufacturers.

In industrial hose, an important use of man-made fibers, Celanese broke new ground with its high-strength Fortisan-36. U.S. Rubber Co. used the Celanese yarn in a hose intended for rapid delivery of fuel oil. The new hose is strong enough to be snaked out of a truck traveling at 50 miles an hour. In use, two 500 foot lengths of the hose, which has a 4-inch inside diameter, are coupled and stored so compactly that a 2½ ton truck can carry nearly a mile of hose. It is contemplated that the hose can be used for military fuel supply lines under battle conditions, or for other emergencies when speedy movement of fuel from storage source to use point is required.

A development of significance in industrial V-belts is the use of Dacron to reinforce neoprene. One manufacturer, Boston Woven Hose & Rubber Co. has shifted its entire production of V-belts made in this way. Longer life and superior performance are cited as advantages of these belts of which more than 50% are used in metalworking, mining, quarrying and petroleum processing.

For rayon, progress in the development of paper fabrics has opened a new market. Scott Paper Co., whose new "Dura-Weve" cloth-like paper fabric has made something of a sensation, uses rayon yarn made by American Viscose Corp. to reinforce its new material. In the construction of the new paper a rayon scrim is bonded between two plies of paper to give strength and flexibility. Scott's paper fabric is being used in towels, aprons, napkins and other uses where a disposable fabric is economic. Other paper manufacturers are also using rayon scrim to reinforce papers intended for uses where strength and durability are wanted.

Readers who wish further information about any of the new fabrics and new end uses described in this report are invited to write the editors, MODERN TEXTILES MAGAZINE, 303 Fifth Ave., New York 16, N. Y.

MODERN TEXTILES MAGAZINE

TABLES of DENIER NUMBERS and FILAMENT COUNTS of U. S. Man-Made Yarns and Fibers

an annual compilation

prepared by

H. George Janner
MANAGING EDITOR

THESE TABLES have been revised and brought up to date so as to present the most recent data on denier numbers and filament counts of man-made filament yarns and staple fibers manufactured in the United States. The information presented has been obtained from the companies that produce these yarns and fibers, and represents the latest data available.

Reprints of these tables are available at nominal cost by writing MODERN TEXTILES MAGAZINE, 303 Fifth Ave., New York 16, N. Y.

NOTES TO TABLES

Cellulosic Yarns

Rayon

AMERICAN BEMBERG is now offering a full line of "Cupracolor" solution dyed colors in "Cupioni" and "Strata" yarns. They are also offering a new yarn, called "Parfé" which is dyed intermittently. This yarn is said to have the same fastness as solution dyed colors. It comes in 20 shades.

AMERICAN ENKA CORP. shows a new range of Jetspun® solution dyed rayon of regular and high tenacity yarns and of "Skyloft" lofted rayon filament yarns. These are furnished in natural and Jetspun. (Tables 1 & 2)

AMERICAN VISCOSE CORP. reports a considerable increase in their rayon staple fiber range, which includes a few Colorspun yarns.

HARTFORD RAYON CO. has added two "Kolorbon" yarns to its range of staples, available in 8 and 15 den. (Table 4)

INDUSTRIAL RAYON CORP. has added to its rayon filament line two new yarns, to be known under the trade name "Tiaralon". They are monofilament yarns, without twist and are available in 450 and 1250 deniers.

NORTH AMERICAN RAYON CORP. is now producing a super high-tenacity rayon staple which is sold under the brand name "Narcon". It is offered in two types: Narcon #1 with high shrinkage and high bulking and Narcon #2 with regular shrinkage. This new yarn is also available in Tow form in 2200 den. 2000 fil. and 4400 den. 2934 fil. It comes in bright only. (Tables 4 & 5)

COURTAULDS (ALABAMA) INC. now has 27 shades in its Coloray staple color range. These include apparel and home furnishing shades.

Acetate

CELANESE CORPORATION OF AMERICA has introduced a new cross-section "Type F" yarn with a different filament count: 75 den.—17 Fil. and 150 den.—35 fil. They also have a new "bulked" yarn which is available in 230/104 and 350/80 in bright and dull. (Table 1)

Triacetate

This yarn type produced by the same company under the trade name Arnel is now listed as a separate yarn group at the end of Table 1. Arnel triacetate fiber is also available in staple form in 2.5 and 5.0 deniers. (Table 4)

Non-Cellulosic Yarns

Nylon

ALLIED CHEMICAL CORP. has added a 200 den. 16 fil. yarn to its Caprolan nylon line. (Table 3)

Our Table shows two additional producers of nylon yarns. These are BOLTA PRODUCTS DIVISION of The General Tire & Rubber Co. and FIRESTONE PLASTICS CO. Both are making monofilament yarns.

Creslan

AMERICAN CYANAMID CO. reports that plans call for the start of production of Creslan acrylic fiber in staple and tow form at its Santa Rosa plant in Florida late this year. All deniers and staple lengths to meet trade requirements will then be available. Until this production begins, output in a limited range of deniers is being continued at the pilot plant at Stamford, Conn. Here, development work on Creslan filament yarn is also proceeding.

Verel

EASTMAN CHEMICAL PRODUCTS INC. is now offering this acrylic fiber in staple form in deniers ranging from 2D/F to 24D/F in practically any length applicable to known systems of textile manufacturing. The fiber is provided with a standard lubricant finish suitable for the usual textile systems. Verel is available in a selection of types with varying shrinkage characteristics. (Table 4)

Darvan

B. F. GOODRICH CO., the producer of this dinitrile fiber, informs us that, aside from the change in name from "Darlan" to "Darvan," the production of the fiber in staple and tow form remained practically unchanged. (Tables 4 & 5)

Polyethylene Yarns

Production of these yarns is listed for two additional firms, BOLTA PRODUCTS DIV. and DAWBARN BROTHERS, INC. (Table 3)

REEVES BROTHERS, INC. has now three grades of polyethylene filaments, their "670" series of the branched or low density types, their "760" and "700" series of the high tenacity linear or high density type, which are supplied clear, in colors, and in special sunlight stabilized colors.

Polypropylene Yarns

These yarns are being produced by DAWBARN BROTHERS, INC. and REEVES BROTHERS, INC. Reeves designates them as "800" series and furnishes them in clear and in colors in the same sizes as polyethylene and in multifilaments. (Table 3)

Saran

THE NATIONAL PLASTIC PRODUCTS CO., in addition to its regular Saran yarn production, has introduced a new low density, high yield Saran monofilament, which it calls "Spark-L-Ite". The new yarn is said to have a sparkling, metallic-like appearance, which does not discolor or tarnish.

Vicara

VIRGINIA-CAROLINA CHEMICAL CORP. is no longer producing this fiber.

Vinyl Yarns

Such yarns are being produced by BOLTA PRODUCTS DIVISION as round and eliptical monofilaments and are listed in Table 3.

Another producer of vinyl chloride fiber, designated as "45 Yarn" is POLYMERS, INC., which is not listed in the Table. These plasticized yarns are furnished in round and flat and are supplied on beams having specified number of ends. Polymers is also producing low-pressure polyethylene monofilaments.

Glass Fibers

No changes have been reported in the range of yarns listed in Table 3 by the three producers of glass fibers. However, OWENS-CORNING FIBERGLAS CORP. is announcing the production of pre-saturated and Teflon-coated yarns for electrical and industrial end uses.

TABLE 1 — RAYON and A

DENIERS	40	45	50	55	60	65	75	100	120	125	150	200	230	240	250	275	300	350	400	450	60
Rayon																					
American Viscose Corp.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15-30	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44-234	—	—	—	—
	—	—	20	—	—	—	30	40-60	—	50	24-60	44	—	—	60	—	44	—	—	—	30-1
	—	—	—	—	10	—	10	14	—	—	40-90	—	—	—	—	—	15-50	—	—	100	—
E. I. du Pont de Nemours & Co., Inc.	—	—	—	—	—	—	10-30	15-40	—	50	40-60	—	—	—	—	—	50	—	—	72	96
	—	—	20	—	—	—	30	60	—	50	90-100	—	—	—	—	—	50	—	—	72	—
	—	—	—	—	—	—	—	40	—	—	90	80	—	—	—	—	—	—	—	100	—
	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1-30	—	—	—	1-1
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	—
Industrial Rayon Corp.	—	—	—	—	—	—	—	40	—	—	40	20-40	—	—	—	—	44-80	—	—	60	90
	—	—	—	—	—	—	—	—	—	—	40	—	—	—	—	—	80	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	450/1/0	—
American Enka Corp.	—	—	20	—	—	—	10-30-60	14-40-60	—	—	40	40	—	—	—	—	40-50-60	—	—	80	80-1
	—	—	—	—	—	—	45-60	40	—	—	40	40	—	—	60	—	60-120	—	—	—	—
	—	—	18	—	—	—	18-45	40-60	—	40	40-90	—	—	—	60	—	30-50-60-120	—	—	80	80
	—	—	—	—	—	—	—	40	—	—	40	40	—	—	—	—	120	—	—	80	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. American Rayon Corp.	—	—	—	—	—	—	30	60	—	52	42	—	—	—	—	—	75	—	—	—	—
	—	—	—	—	—	—	—	40	—	60	60	—	—	—	—	—	—	—	—	—	—
Skenandoa Rayon Corporation	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	—	—	75	98
	—	—	—	—	—	—	—	—	—	—	40	—	—	—	—	—	—	—	—	—	—
Celanese Corporation of America	—	—	—	—	—	—	30	40-60	—	40	40-60*	—	—	—	—	—	50	—	—	120*	—
	—	—	—	—	—	—	—	60	—	—	40-90	—	—	—	60	—	—	—	—	—	—
New Bedford Rayon Co.	—	—	—	—	—	—	—	40	—	—	40	—	—	—	—	—	40	—	—	—	16
	—	—	—	—	—	—	—	—	—	—	40	—	—	—	—	—	—	—	—	—	16
											also Monofil. bright										also Monofil.
American Bemberg	30	—	36	—	—	45	60	74	—	60	120	—	—	—	—	—	225	—	—	—	—
	30	—	36	—	—	45	45	60	—	60	90	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	120	—	—	—	—	—	—	—	—	—	—
	—	—	30	—	—	—	—	60	—	—	90†	120	—	—	—	135†	—	—	—	225	372
	—	—	—	—	—	—	—	—	—	—	135	—	—	—	—	372	—	—	—	372	372
Acetate																					
American Viscose Corp.	—	11	—	14-20	—	—	20	28	32	—	41	54	—	—	—	—	80	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Celanese Corp. of America	—	13	—	15	—	—	20-50	13-26-40	40	—	20-40	52	—	—	—	—	50-80	—	—	—	13-1
	—	—	—	—	—	—	17	—	—	—	35	—	—	—	—	—	—	—	—	—	—
	—	—	—	15	—	—	20	26	40	—	40	52	—	—	—	—	80	—	—	120	160
	—	—	—	—	—	—	—	20	—	—	30	40	—	—	—	—	60	—	—	90	120
	—	—	—	—	—	—	—	—	—	—	—	—	104	—	—	—	—	80	—	—	—
E. I. du Pont de Nemours & Co., Inc.	—	—	—	—	—	—	24	—	—	—	60	—	—	—	—	—	40-80	—	—	—	—
	—	13	—	18-24	—	—	8-24	11-32	—	—	40	64	—	100	—	—	80	—	—	120	160
	—	—	—	—	—	—	50	66	50	—	16	60	—	—	—	—	40	—	—	—	—
	—	—	—	—	—	—	—	22	—	—	—	64	—	—	—	—	—	—	—	—	—
	—	—	—	18	—	—	24	32	—	—	40	60	—	—	—	—	40-80	—	—	120*	160
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80	—	—	—	—
	—	—	—	—	—	—	—	24	40	—	—	—	—	—	—	—	—	—	—	—	—
Eastman Chemical Products, Inc.	—	11	—	13	—	—	19	25	30	—	38	50	—	—	—	—	75	—	—	114	156
	—	—	—	20	—	—	49	34	—	—	—	104	—	—	—	—	—	—	—	—	—
	—	—	—	36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	19	25	—	—	38	104	—	—	—	—	75	—	—	114	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	25	—	—	38	50	—	—	—	—	75	—	—	—	—
	—	—	—	—	—	—	—	25	—	—	38	50	—	—	—	—	75	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	2 D/F	—	—	—	—	4 D/F	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	2 D/F	—	—	—	—	4 D/F	—	—	—
	—	—	—	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—	—	—	—
Triacetate																					
Celanese Corp. of America	—	—	—	15	—	—	20-40	26	32	—	40	52	—	—	—	—	80	—	—	120	160

TABLE 2 — INTERMEDIATE an

DENIERS	30	40	50	60	90	120	150	270	300	450	600	900	1100
Am. Viscose	—	—	—	—	—	—	60	—	120	120	234	350	490*
	—	—	—	—	—	—	—	—	—	—	—	—	980*
Du Pont	—	20	20-35	—	—	—	60	—	120	180	240	—	720
	—	—	—	—	—	—	—	—	—	—	—	—	—
Ind. Rayon	—	—	—	—	—	—	40	—	80	—	—	—	480
	—	—	—	—	—	—	—	—	—	—	—	—	720
Am. Enka	—	—	—	—	—	—	—	—	120	—	—	120	480*
	—	—	—	—	—	—	—	—	—	—	—	120	720
	—	—	—	—	—	—	—	—	40	—	80	120	—
No. Am. Rayon	—	—	—	—	—	—	—	—	—	—	—	—	720*
Beaunit Mills	—	—	—	—	—	—	—	—	—	—	—	—	720*
Celanese	40*	—	—	80*	120*	160*	180	360*	360	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—

*Note: * High tenacity or tire cord yarn.*

N TEXTILES' TABLES OF DENIER AND

ACETATE YARNS

00	700	720	900	1000	1080	1100	1200	1800	2000	2200	2400	2500	2700	3000	3200	4000	4300	5000	5300	TYPES
-100			100-60 150-50										150							Avisco, Bri., Dull & Semidull, Thick & Thin, Colorspun
96			50-144					100					150							Bright and Dull
						240				480										Thick and Thin
-16	16						16													#77 Rayon
																				7-77 Rayon
90			50-510 150					100 1250/1/0					150							Bright Semi-dull Luster #4 Tiaralon® Bright and Dull
-120			120																	Briglo
30				7.5 D/F						15			15				8		15	Periglo (Semi-Dull) Englo (Dull) Jetspun (Colored Yarns) Skyloft
			46					92												Bright, Xtra-dull
98			150																	Bright, Veri-Dul
																				Bright Dull *Thick & Thin
6 6 l. bright																				New Bray New Dull
																				Bemberg & Matesa Rayon, Reel Spun, Spool Spun Yarn
72 72†			372† 372†									744						1488		Cupioni Strata Parfe †Solution dyed colors
																				Avisco, Bri. & Dull
160			20-80-240					80			120		120	160	160	200				Bright & Dull
0			80																	Type F Celaperm
0																				Thick & Thin
																				Bright & Dull—Bulked
0			44 44 240					88 88					132 132 132	210						Type 20 Bright & Dull Thick & Thin
0*			240* 44 70					140					210		*Black only					Color Sealed Type C Semi-Dull
6			45 75 128 230 128																	Bright & Dull Estron Chromspun
					7 D/F 7 D/F					16 D/F 16 D/F			16 D/F 16 D/F						16 D/F 16 D/F	Thick & Thin Estron Thick & Thin Black Chromspun Lofted Estron Lofted Chromspun Estron Crystal Chromspun Crystal
0																				Arnel

d HIGH-TENACITY YARNS

1165	1200	1250	1530	1650	1725	1780	1800	1900	2200	2400	3300	4400	Types
		980*		980*		980*		980*	980*				Avisco Tire: Rayflex and Super Rayflex
480	720		960	1100			1100		1440	1440			Super Cordura Cordura
				720	720				720 1000 2000		1440	1440 2000 4000	Tyron 200
				720* 1100					960	960			Viscose Tempra Suprenka I & II Jetspun
				720*									Super-Narco High-Narco Super-High Tenacity
				720*									High Tenacity
											also 800 and 1600		Acetate: Fortisan Fortisan-36

FILAMENT NUMBERS OF U.S. MAN-MADE YARNS AND F

TABLE 3 — NON-CELLUL

Deniers	7	10	12	14	15	17	18	20	21	25	28	30	40	50	60	70	80	90	100	140	150	200	210	220	250	260	270	300	320	380	400	420	480	500	520	540	560	600	610	630	770	780	800
Allied Chemical																						16																							
Am. Enka Corp.		2	2		1-2		2	1-2-4				4-6	8-10	13		16-32			32			16-34															32							
Chemstrand Corp.													7																															
		1			1			7				10-26	10 13	17		34	26		34	68		34	34			17						68			34					102		51		
	1	1	1		1			7	3		4	10	1	17		34	26	26	34	68		34	34			17						68	68									51		140
					3			20				26	13-34					44	50			68																						
E. I. du Pont de Nemours & Co., Inc.				2		2			1-2				7	10	20	17						20													34							51		
																34						34																						
												14	27			34					34																							
												20	27			14-34			34	27				50	50																			
													27			34																												
																															60												
Bolta Products																						.005													.008				.010		.005x.020		
																						.006							.008		.010										.013	
																																								.008x.020			
																																						.012					
																			.004			.006							.008		.009												
Dawbarn Bros., Inc.																																		.008				.010		.005x.020		
																					.006							.0087							.010			.0068x.019	.012		.001x.075		
																					.006														.010			.006x.019	.012		.001x.075		
																																	12										
Firestone Plastics Co.																						.005			.007				.008		.009				.008						.010 .005x.020		
																						.006					.008				.010							.008x.020L		.012 .008x.020			
National Plastic Products Co.																			.004			.006								.008	.009									.012			
																																								.012				
																						.005													.008						.010		
																																						496/.0045 x .0135				777/.00575 x .017	
Reeves Bros., Inc.																	.004				.006						.008				.010								.012				
																	.004				.006					.008					.010								.012	.008x.020				
Saran Yarns Co.	Monofilaments in 70, 100 and 124 denier																					Multifilaments in 1240/10, 1300/9																							
Southern Lus-Trus Corp.																																		.008						.010		
														102					204			204						204			408									204				
																						408						612			816									408				
L.O.F. Glass Fibers Co.																					204					612								612									
																												300											600				
																												408											612				
																																							816				
																																							1244				
Owens-Corning Fiberglas Corp.										51				102					204		306	204						204			408			204		204			204-408				
																			102			408						306-408			816					408			612-816				
																												612											122				
Pittsburgh Plate Glass Co.																			204			204						204			408								408				
																						408						612			816								1224				

TABLE 4 — Cellulosic

Deniers	Length in inches	Luster	Crimp	Spinning System
Rayon				
		AMERICAN ENKA		
1.50	1¼	bright & dull	none	Cotton
1.50	1-9/16, 2	bright & dull	none	Cott. & Non-Wov.
3.00	1-9/16	bright & dull	none	Cotton
3.00	2	bright & dull	none	Cott. & Wool
8.00	3, 6	bright & dull	yes	Carpet
15.00	3, 6	bright & dull	yes	Carpet
		AMERICAN VISCOSE		
1.00*	1-9/16	bright	none	Cotton
1.25	2¼	dull	yes	Cotton
1.50	1⅛	bright	none	Cotton
1.50	1-9/16	bright & dull	none	Cotton
1.50	1-9/16 & ½ SSB	bright	none	Cotton
1.50	2	bright & dull	none	Cotton
3.00	1⅛	bright	without	Cotton
3.00	1-9/16	bright & dull	with & without	Cotton
3.00	1-9/16 & ½ SSB	bright	none	Cotton
3.00	2	bright & dull	with & without	Cott. & Wool
3.00	2½	bright & dull	none	Cott. & Wool
5.50	1-9/16	bright & dull	yes	Cott. & Wool
5.50	2	bright & dull	with & without	Cott. & Wool
5.50	2½	dull	none	Cott. & Wool
5.50	5 to 7	bright & dull	none	Worsted
8.00	1-9/16	bright	yes	Carpet
8.00	3	bright	yes	Carpet
15.00	3	bright & dull	yes	Carpet
15.00	4	bright & dull	yes	Carpet
15.00	5 to 7	bright & dull	yes	Carpet
8.00	1-9/16	bright	with & without	Carpet
15.00	4	dull	with & without	Carpet
22.00	4	bright & dull	yes	Carpet
1.50*	1-9/16	bright	Viscose 32A	Cotton
1.5**	1-9/16	Bright XL	none	Cotton
1.5	1-9/16	Colorspun	none	Cotton
3.0	2	Colorspun	none	Cotton
15.0	3	Colorspun	yes	Carpet
8.0	3	Bright Super L	none	Carpet
15.0	3	Colorspun Super L	none	Carpet
15.0	3 & 5-7	Brt. & dull Super L	none	Carpet
		COURTAULDS (ALABAMA) INC.		
1.5	1⅛	bright & dull	none	Cotton
1.5	1¼	bright & dull	none	Cotton
1.5	1-9/16	bright & dull	none	Cotton
1.5	2	bright & dull	none	Cotton
1.5	2½	bright & dull	none	Cotton
3.0	1⅛	bright & dull	none	Cotton

* 15% over regular strength; all others listed, regular strength.
** 30% stronger dry, 50% stronger wet.

Deniers	Length in inches	Luster	Crimp	Spinning Systems
3.0	1-9/16	bright & dull	yes	Cotton
3.0	2	bright & dull	yes	Cott. & Wool
5.5	1⅛	bright	none	Cotton
5.5	1-9/16	bright & dull	yes	Cotton
5.5	2	bright & dull	yes	Cott. & Wool
5.5	3	bright & dull	yes	Wool
8.0	3	bright & dull	yes	Wool
8.0	6	bright & dull	yes	Worsted
15.0	3	bright & dull	yes	Wool
15.0	6	bright & dull	yes	Worsted
1.5	1⅛	Coloray	none	Cotton
1.5	1-9/16	Coloray	none	Cotton
3.0	2	Coloray	none	Cott. & Wool
1.5	1⅛	Black Coloray	none	Cotton
1.5	1-9/16	Black Coloray	none	Cotton
3.0	1⅛	Black Coloray	none	Cotton
3.0	1-9/16	Black Coloray	none	Cotton
3.0	2	Black Coloray	none	Cott. & Wool
5.5	1-9/16	Black Coloray	none	Cott. & Wool
5.5	2	Black Coloray	none	Cott. & Wool
5.5	3	Black Coloray	none	Wool
5.5	6	Black Coloray	none	Worsted
		HARTFORD RAYON		
1.50	1⅛	bright	none	Cotton
8.00	3 & 6	bright	yes	Cott., Wool, Flax
15.00	3 & 6	bright & dull	yes	Cott., Wool, Flax
8.00	3 & 6	Kolorbon	yes	Cott., Wool, Flax
15.00	3 & 6	Kolorbon	yes	Cott., Wool, Flax
		NORTH AMERICAN RAYON CORPORATION		
		"Narcon"—Super-High Tenacity Rayon Staple		
		Narcon #1 (High Shrinkage, High Bulking)		
1.0	1.5 to 4	bright	none	Cott. & Wool
1.5	1.5 to 4	bright	none	Cott. & Wool
2.3	1.5 to 4	bright	none	Cott. & Wool
		Narcon #2 (Regular Shrinkage)		
1.0	1.5 to 4	bright	yes	Cott. & Wool
1.5	1.5 to 4	bright	yes	Cott. & Wool
3.0	1.5 to 4	bright	yes	Cott. & Wool
Acetate		*CELANESE CORPORATION OF AMERICA*		
2.00				
3.00				
5.50				
8.00	any length	bright & dull	yes	all systems
12.00				
17.00				
35.00				
50.00	Also Arnel Triacetate staple in 2.5 and 5.0 den.			

STAP

Deniers	Length in inches	Lus
Acrilan Acrylic Fiber— *THE CHEMSTRAN*		
2.0		
2.5 hi-bulk		
3.0	1-9/16 to 5	bright or
5.0		
8.0		
15.0		
Creslan Acrylic Fiber— *AMERICAN CYAN*		
2.0		
3.0	1½ to 5	bright &
5.0		
15.0		
Dacron Polyester Fiber— *DU PONT*		
1.25	1¼, 1½, 2, 2½ & 3	
1.50		
3.00		semi-dull
4.50	1¼, 1½, 2, 2½, 3 & 4½	
6.0		
Fiberfill		
Darvan Dinitrile Fiber— *B. F. GOODRICH*		
1.5		
2.0		
3.0	1½ to 4½	bright or
4.5		
6.0		
8.0		
Dynel Acrylic Fiber— *UNION CARBIDE CH*		
2.0		
3.0		
6.0	any length from 1¼-5	semi-brig
12.0		
24.0		

FIBERS — SEPTEMBER 1958

LOSIC YARNS

80	800	815	840	915	930	960	990	1040	1050	1100	1120	1200	1225	1540	1580	1650	1680	1750	1850	2000	2050	2465	2520	2770	2920	3320	3624	3720	Types
			136																2100—15,000 and higher deniers as specified										Caprolan (nylon), bright & heat stabilized
																													Enka Nylon, dull, semi-dull & bright
51			140					68									280								and 15120 den. 2520 fil.				Nylon, dull, semi-dull & bright
	140		140																				420						
51																	280		Also industrial Yarn 4200/700, 5040/840, 7560/1260, 10080/1680 and 15120/2520										Nylon, various types
										250																			Color-sealed semi-dull
										250																			Dacron bright dull
												180																	Teflon
		4500F.									.012					.015									.020		.030		Saran (round)
											.008x.020					.009x.030									.013x.030				do (flat & oval)
13					.0145		.015																						Polyethylene, linear, round
									.009x.030						.013x.030														do , do , eliptical
									.009x.030																	.025			Vinyl Monofil., round
																										.017x.100			do do , eliptical
											.015																		Nylon Monofil., round
											.012					.015									.020				Saran (round)
									.001x.15		.008x.020								.009x.030										do (eliptical)
										.0085x.027			.001x.225																Polyethylene, DPL, round
																													do , flat & Ribbon
									.001x.15				.009x.030	.001x.225															Polypropylene, DPL-4, round
						12 & 24																							do , flat & Ribbon
																													do , Multifilaments
											.015									.020									Nylon
											.012					.0145									.020				Velon (round)
											.008x.020								.009x.030				.013x.030L						do (eliptical)
					.0145		.015											.021												Polyethylene, regular round
									.009x.030						.013x.030														Polyethylene, linear, round
																													do , do , eliptical
																													Nylon Monofil., round
				.009x.030																									Polyethylene, linear, round
				.015												.020													do , do , oval
																		.011x.027											do , branched, round
											.012							.015							.020		.030		Polystyrene, flat
17							990/.006 x .0185			1116/.0065 x .020 (all flat)									1860/.00875 x .030			2230/.010 x .030			2790/.01275 x .030 (all oval)				Saran (round)
				.015														.020				.023						.030	do (flat & oval)
																.013x.030			.009x.030										Reevon Polyeth. (round) (flat)
				.015														.020											Reevon, Polypropylene (round)
																													Saran
											.012					.015									.020				Saran (round)
											.008x.020															.013x.030				do (eliptical)
		816		612									816	3060		1632			1224		2040			1836		3264			
		1632														3264						1632						2448		
																						2400						2448	Glass Fibers
				900									1200						1800			2448							(others in den. up to 10,000)
				1224									1224						1836										
				1836									2448								4080			2700					
		816		612									816	3060					1224		2040			1836		3264			
		1632		1836									1224			1632			1836			1632							"Fiberglas" Yarns
													2448			3264					4080	2448					2448		
				612									816																Fiber Glass
				1836									2448						1224					1836				2448		Yarns

APLE

Luster	Crimp	Spinning Systems
TRAND CORP.		
ight or semi-dull	yes	all systems
CYANAMID CO.		
ight & semi-dull	yes	all systems
mi-dull	yes	
ORICH CHEMICAL CO.		
ight or semi-dull	set or unset	all systems
DE CHEMICALS CO.		
mi-bright	yes	all systems

Non-Cellulosic

Deniers	Length in inches	Luster	Crimp	Spinning Systems
Nylon				
AMERICAN ENKA				
3.0		bright & semi-dull		
6.0		bright		
8.0	various lengths	bright		all systems
10.0		bright		
15.0		bright & semi-dull		
Tradename Enka Nylon				
DU PONT				
1.50	1⅛, 1½, 2, 2½, 3, 4½	semi-dull	yes	
2.20	1½	Type 420		
3.00	1⅛, 1½, 2, 2½, 3, 4½	bright & semi-dull	yes	all systems
6.00	1⅛, 1½, 2, 2½, 3, 4½	bright	yes	
15.00	1½, 3, 4½, 6½	bright & dull	yes	
INDUSTRIAL RAYON CORP.				
1.5		bright & semi-dull		
3.0		bright & semi-dull		
6.0	1-1/16 to 9	bright or semi-dull	yes	all systems
8.0		dull		
15.0		dull		
22.0		dull		
Orlon Acrylic Fiber—*DU PONT*				
1.00	1½, 2, 2½ & 3			
2.00		semi-dull	yes	
3.00				
4.50	1½, 2, 2½, 3 & 4½			
6.00				
Type 39 Mixed denier, cut lengths.			yes	Wool
Colorsealed in black only in 3.0 den. All available in regular or high shrinkage.				
Saran—*THE SARAN YARNS CO.*				
10				
16				
22	any length		yes	all systems
30				
45				

Deniers	Length in inches	Luster	Crimp	Spinning Systems
Teflon—*DU PONT*				
6.67	½ to 5			
Verel, Modified Acrylic Fiber—*EASTMAN CHEMICAL PRODUCTS*				
Regular Type I & II				
2				
3				
5				
8	any length	bright & dull	yes	all systems
12				
16				
24				
Type III				
2				
3	any length	bright & dull	yes	all systems
5				
8				
No. 110				
5				
8	any length	bright & dull	yes	all systems
16				
20				
Vinyon—*AMERICAN VISCOSE CORP.*				
3.0	1¼	bright	slight	Cott. & Wool
3.0	2	bright	slight	Cott. & Wool
5.5	1	bright	slight	Cott. & Wool
5.5	3½	bright	slight	Carpet
Zefran Acrylic Alloy Fiber—*THE DOW CHEMICAL CO.*				
2.0	1½-3			
3.0	1½-4½	bright & semi-dull	yes	all systems
6.0	1½-4½			

TABLE 5 TOW

Cellulosic

Acetate

CELANESE CORPORATION OF AMERICA

Filament Denier	Number of Filaments	Total Denier
2.0		89,000
3.0		137,000
5.5		139,000 Dull
5.5		198,000 Bright
8.0		234,000
17.0		326,000
50.0		240,000

Bright and dull, crimped and uncrimped.

Rayon

AMERICAN VISCOSE

Filament Denier	Number of Filaments	Total Denier
1.5, 3.0, 5.5	bright & dull	200,000
9.0	bright	

CELANESE CORPORATION OF AMERICA

Filament Denier	Number of Filaments	Total Denier
1.5		200,000
3.0		200,000
5.5		200,000
8.0		207,000

Bright and dull, crimped and uncrimped.

NORTH AMERICAN RAYON CORP.

2200 den. 2000 fil. and 4400 den. 2934 fil.
Bright and super high tenacity.

Non-Cellulosic

Acrilan Acrylic Fiber

THE CHEMSTRAND CORP.

Filament Denier	Number of Filaments	Total Denier
2.0	120,000	240,000
2.5	120,000	300,000
3.0	120,000	360,000
5.0	72,000	360,000
8.0	45,000	360,000
15.0	30,000	450,000

Semi-dull.

Creslan Acrylic Fiber

AMERICAN CYANAMID CO.

Filament Denier	Number of Filaments	Total Denier
2.0, 3.0, 5.0, 15.0	bright or semi-dull, crimped (in limited quantities only)	

Dacron Polyester Fiber

DU PONT

Filament Denier	Number of Filaments	Total Denier
1.5	366,666	550,000
3.0, 4.5, 6.0	150,000, 100,000, 75,000	all 450,000

Semi-dull.

Darvan Dinitrile Fiber

B. F. GOODRICH CHEMICAL CO.

Filament Denier	Number of Filaments	crimpset	not crimpset
1.5	60,000	100,000	90,000
2.0	45,000	100,000	90,000
3.0	30,000	100,000	90,000
4.5	20,000	100,000	90,000

Dynel Acrylic Fiber

UNION CARBIDE CHEMICALS CO.

Filament Denier	Number of Filaments	Total Denier
2	90,000	
3	60,000	all
6	30,000	180,000
12	15,000	
24	7,500	

Semi-dull.

Nylon

DU PONT

Filament Denier		Number of Filaments	not heatset	heatset
3.0	semi-dull & bright	143,333	430,000	455,000
6.0	bright	55,000	330,000	345,000
15.0	bright & dull	22,000	425,000	

Semi-dull and bright.

Orlon Acrylic Fiber

DU PONT

Filament Denier	Number of Filaments	Total Denier
2.0	235,000	
3.0	157,000	all
4.5	104,500	470,000
6.0	78,300	
10.0	57,000	

Semi-dull. Colorsealed in black only in 3.0 and 6.0 den.

Saran

THE SARAN YARNS CO.

Filament Denier	Number of Filaments	Total Denier
10 to 45		up to 300,000

Teflon

DU PONT

Filament Denier	Number of Filaments	Total Denier
6.67		4,000-9,000

Zefran Acrylic Alloy Fiber

THE DOW CHEMICAL CO.

Available in experimental quantities only.

TABLE 6 METALLIC

Producer	Types	Yarn Sizes
DOW CHEMICAL CO.	LUREX (Butyrate)	1/16" to 1/128" ported or unsup ed and in all ty put-ups. Also i ple form.
	LUREX MM	
	LUREX MF	
	LUREX MM-CR (caustic resistant)	1/32" and 1/64"
	LUREX TA	1/16" to 1/128"
	"Faceted Lurex"	
FAIRTEX CORP.	FAIRTEX Type 206 (Butyrate)	1/16" to 1/128" supported or u ported on con tubes. Also in form.
	FAIRTEX with Mylar* Metalized 100V and 150V	
	FAIRTEX with Mylar 150V Foil	
MALINA CO.	MALORA (Butyrate)	1/16" to 1/100" either supporte unsupported i putups.
	MALORA with Mylar (Metalized)	
	MALORA with Mylar (Foil)	
	Metallic Cellophane Yarn	
METAL FILM CO.	CHROMEFLEX NL	1/64" yielding 52-54000 yards p
	CHROMEFLEX MF	1/16"-1/100"
	CHROMEFLEX MM	1/16"-1/100"
METLON CORP.	METLON (Butyrate type)	1/120" yielding yards per lb. to Metlon 1/120" available in form. Yarns ma supported with fibers.
	METLON with Mylar	1/16" to 1/120"
	METLON HT Mylar	1/120" yielding yards to ¼".
	METLON Ultra Vat	Same as above
	METLON with Mylar (Automotive)	Same as above
REYNOLDS METALS CO.	REYMET	1/8" to 1/80" supported or u ported on any de package. Also Metallic S in 30 den. for metalized Myla den. for the plai and 70 den. fo Mylar foil yarn. ple available ir length from ¼ 14", with or wi crimp and of ext fineness (as fi 1/220").
STANDARD YARN MILLS, INC	LAMÉ	1/16" to 1/120", in wider width. Available in and flock form.
	LAMÉ with Mylar (Foil)	1/16" to 1/128"
	LAMÉ with Mylar (Metalized)	Same as above All yarns ava either unsupport supported.

* Du Pont's polyester film.

IC YARNS

Sizes	Construction	Colors
/128" sup- unsupport- all types of Also in sta-	Laminated with aluminum foil. Metalized Mylar laminated with clear Mylar film. Two layers of clear Mylar with aluminum foil bonded between.	Gold and silver and wide range of other colors.
1/64"	Similar to MM.	
/128"	Laminate of aluminum foil and tri-acetate film. Variant of MM.	
128" either or unsup- cones or o in staple	Laminate with aluminum foil. Laminate with Mylar Polyester film. Same as above.	Gold and silver and range of 12 other colors.
" to 00" pported or d in all	Aluminum foil laminate. Metalized Mylar with clear Mylar. Clear Mylar with aluminum foil. Laminate of clear cellophane film to aluminum foil.	Gold and silver. Other colors supplied on special orders.
ding from rds per lb. " "	Non-laminated Mylar. Foil laminated with Mylar. Metalized Mylar laminated with clear Mylar.	Gold, silver and dyeable yarns. Other colors on request. Yarns are also available in silver with special dyeing characteristics.
ding 21000 b. to 1/16". 120" also in staple ns may be with other	Aluminum foil laminated between two plies of plastic film.	Gold, silver and wide range of metallic colors. Also Crystal Mist and Iridescent yarns.
120"		Same as above.
ding 32000 ".	Laminate of aluminum foil with two plies of Mylar or of clear Mylar film with metalized Mylar.	Gold and silver and full line of colors.
bove		Same as above but of increased fastness.
bove	Same as above. Also available in H.T. quality.	Gold and silver with great Fadeometer resistance.
80" either or unsup- ny desired lic Staple . for the Mylar, 40 plain foil, n. for the yarn. Sta- le in any m ½" to r without of extreme s fine as	Bright metallic yarn aluminum foil combined with butyrate acetate or Mylar polyester film.	Gold and silver and wide range of solid colors and multi-colors. Special colors on request.
/120", also idth. in staple rm.	Aluminum foil laminated between two plastic films.	Gold and silver and wide range of other colors.
128"	Aluminum foil laminated between two films of Mylar.	Same as above.
bove available pported or	Mylar film laminated to metalized Mylar film on either one or both sides.	Same as above.

YARN PRODUCERS SALES OFFICES

Allied Chemical Corp.
Fiber Sales & Service
261 Madison Ave.
New York 16, N. Y.

American Bemberg
261 Fifth Ave.
New York 16, N. Y.

American Cyanamid Co.
Fibers Division
111 West 40th St.
New York 18, N. Y.

American Enka Corp.
530 Fifth Ave.
New York 36, N. Y.

American Viscose Corp.
Fibers Division
350 Fifth Ave.
New York 1, N. Y.

Beaunit Mills, Inc.
261 Fifth Ave.
New York 16, N. Y.

The Carborundum Co.
Buffalo Ave.
Niagara Falls, N. Y.

Celanese Corporation of America
180 Madison Ave.
New York 16, N. Y.

The Chemstrand Corporation
350 Fifth Ave.
New York 1, N. Y.

Courtaulds (Alabama) Inc.
600 Fifth Ave.
New York 20, N. Y.

Dawbarn Bros., Inc.
Waynesboro, Va.

The Dow Chemical Co.
Textile Fibers Department
Williamsburg, Va.

E. I. du Pont de Nemours & Co., Inc.
Textile Fibers Dept.
Wilmington 98, Del.

Eastman Chemical Products, Inc.
260 Madison Ave.
New York 16, N. Y.

Fair Haven Mills, Inc.
Fair Haven, Vt.

Fairtex Corp.
1808 Liberty Life Bldg.
Charlotte 2, N. C.

Firestone Plastics Co.
A Division of Firestone Tire & Rubber Co.
307 Fifth Ave.
New York 16, N. Y.

Bolta Products Division
General Tire & Rubber Co.
70 Garden St.
Lawrence, Mass.

B. F. Goodrich Chemical Co.
A Division of The B. F. Goodrich Co.
3135 Euclid Ave.
Cleveland 15, Ohio

Hartford Rayon Co.
A Division of Bigelow-Sanford
Carpet Co. Inc.
140 Madison Ave.
New York 16, N. Y.

Industrial Rayon Corp.
500 Fifth Ave.
New York 36, N. Y.

L·O·F Glass Fibers Co.
1810 Madison Ave.
Toledo 1, Ohio

Malina Company
125 West 41 St.
New York 36, N. Y.

Metal Film Co., Inc.
40 Worth St.
New York 13, N. Y.

Metlon Corporation
Div. of Acme Backing Corp.
432 Fourth Ave.
New York 16, N. Y.

Modiglass Fibers, Inc.
Nicolet Ave.
Florham Park, N. J.

Multi-Tex Products Corp.
56 Elm St.
Newark 5, N. J.

The National Plastic Products Co.
Odenton, Md.

New Bedford Rayon Division
Mohasco Industries, Inc.
New Bedford, Mass.

North American Rayon Corp.
261 Fifth Ave.
New York 16, N. Y.

Nylco Products, Inc.
530 Main St.
Clinton, Mass.

Owens-Corning Fiberglas Corp.
Textile Division
598 Madison Ave.
New York 22, N. Y.

Pittsburgh Plate Glass Co.
Fiber Glass Division
One Gateway Center
Pittsburgh 22, Pa.

Poliafil, Inc.
311 Palm St.
Scranton 5, Pa.

Polymers, Inc.
Middlebury, Vt.

Polyarns Inc.
545 No. Main St.
Canandaigua, N. Y.

Reeves Brothers, Inc.
1071 Ave. of the Americas
New York 18, N. Y.

Reynolds Metals Co.
6601 W. Broad St.
Richmond 18, Va.

The Saran Yarns Co.
Odenton, Md.

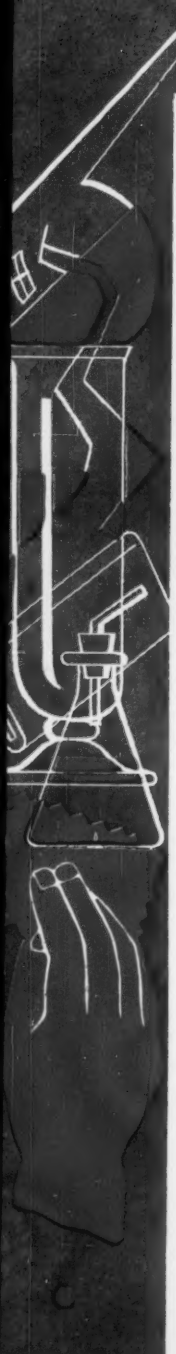
Skenandoa Rayon Corp.
261 Fifth Ave.
New York 16, N. Y.

Southern Lus-Trus Corp.
1048 Escambia St.
Jacksonville 6, Fla.

Standard Yarn Mills, Inc.
83rd St. and Cooper Ave.
Glendale 27, N. Y.

Union Carbide Chemicals Co.
A Division of Union Carbide Corp.
Textile Fibers Department
100 East 42nd St.
New York 17, N. Y.

United States Rubber Co.
Textile Division
1230 Ave. of the Americas
New York 20, N. Y.



BLEACHING
PRINTING
SPECIAL
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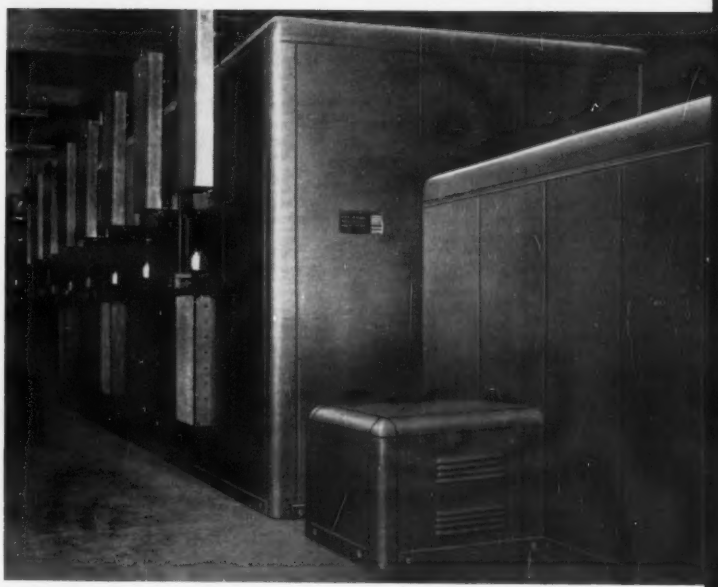
"NATIONAL" PERFORATED APRON CONVEYOR DRYER



Evidence of the outstanding efficiency and economy of this "National" drying unit is found in the number of existing and on-order installations among the Nation's leading chemical manufacturers.

Increased drying capacity per square foot of surface; improved uniformity of dried product; much easier apron cleaning; greater efficiency and accessibility of gas or steam heaters; and a generally neater machine to operate and maintain, are characteristics of this drying system resulting from unique and exclusive features of "National" design, construction, operation and control.

The same type of dryer is used for the drying of starch, rubber crumb and a wide variety of chemicals and pharmaceuticals.

The following well-known companies are among the current users of "National" Perforated Apron Conveyor Dryers:

AMERICAN VISCOSE CORPORATION

ARMOUR & COMPANY

DU PONT COMPANY OF CANADA (1956) LTD.

E. I. du PONT de NEMOURS & CO.

AMERICAN ENKA CORP.

NATIONAL ANILINE DIVISION, ALLIED CHEMICAL & DYE CORP.

CANADIAN INDUSTRIES, LTD.

THE DOW CHEMICAL CORP.

CHEMSTRAND CORP.

UNION CARBIDE & CARBON CORP.

Write for Literature Describing These "National" Dryers and Typical Installations.

THE NATIONAL® DRYING MACHINERY COMPANY

LEHIGH AVE. and HANCOCK ST., PHILADELPHIA 33, PA.

New England Agent: JONES & HUNT, INC., Gloucester, Mass. • *Southern Agent:* F. W. WARRINGTON, Charlotte, N. C.
Cable Address: "NADRYMA"—W. U. Code

New Scott Testers at Manchester Show

At the International Textile Machinery Exhibition in Manchester, England, Oct. 15-25, Scott Testers, Inc., will place major emphasis in its exhibit on two new testing devices. The first of these, the Scott IF-4 Tester, said to be the world standard in the tire cord industry, will be shown for the first time in operation with full automation through the courtesy of the directors of Courtaulds Ltd. The demonstration will include the printing of test results either as picturized graphs on the conventional Tensilgram charts, or in numerical form by feeding into electrical tabulating unit.

The automated testing of tire cords as developed by Courtaulds will be in full operation as follows: (1) Cord sample is pneumatically fed either from oven or from a magazine conditioned sample into air actuated clamps. (2) Sample is automatically straightened and as load commences, the tester starts automatically. (3) At the completion of the test, the tester is automatically returned to its initial position, and the cycle recommences. (4) The test data has concurrently been either tabulated on an electric printer, or recorded on the usual Tensilgram. (5) The testing cycle has either been established for a predetermined number of test samples or may be continuously operated through an entire package.

The second feature of the Scott exhibit is the company's new Model CRE constant-rate-of-extension tensile tester which will also be shown at the Southern Textile Exposition in Greenville, S.C. Oct. 6-10. It has been designed to provide the features requested by the majority of users, and makes optional various additional features. Scott points out that this concept makes possible at low basic cost the most advanced testing technique known, extending the advantages of constant-rate-of-extension testing to a greatly increased scope of applications for which its cost has up to now been considered prohibitive.

Any of the optional additions can be included at the time the Model CRE is purchased or they can be added later on a do-it-yourself basis by inserting components into fitments already in the basic structure. Scott states that the most radical design feature of the CRE is an upward pulling stroke. This is said to have unusual advantages in operator convenience. As an example, Scott points out that this feature permits the clamps to be loaded within convenient reach of the operator when seated.

At the Manchester show, the Model CRE will be in full operation with a complete range of the various options and numerous types of clamps, since all Scott clamps and holding fixtures are applicable to the CRE.

The new Model CRE constant-rate-of-extension tensile tester.

New Finish Aids Absorbency

This month Scholler Brothers, Inc., of Philadelphia, will introduce a new finish said to produce greatly increased wearing comfort in fabrics made of synthetic fibers. Tradenamed "Hysorb", the new finish is said to make synthetic fabrics more absorbent through the effect of a wicking action when moisture makes contact with the fabric surface, resulting, Scholler states, in the dissipation of the moisture instantly.

Scholler further reports that the new finish can be readily applied in conventional equipment and by recognized methods. The company states that the affinity of the finish for almost all man-made fibers makes application comparatively simple. The company has not revealed the composition of the product other than to say that it is a new formulation. It was also indicated that the finish is equally applicable to natural and synthetic fiber blends.

Along with its absorbency properties the new finish is said to give fabrics a pleasing handle. Scholler states that because of the added ability to take on moisture, fabrics treated with "Hysorb" have a "natural" feel, and an added compatibility to the human skin that increases wearing comfort to a marked degree. Fabrics that are normally moisture-resistant are said to "breathe" when treated by the new finish, permitting the absorption of perspiration as well as aiding in the evaporation of skin moisture.

Durability of the new finish is largely dependent upon the type of washing agents used. Milder-type detergents are recommended. For all garments that are typical against-the-skin wear such as lingerie, underwear, shirts, blouses, girdles, brassieres, etc., hand washing or machine washing with detergents will assure acceptable absorbency retention, the company declared. It was further stated that examination of "Hysorb"-treated fabric after repeated wash-and-dry cycles, revealed no harshening of hand and that the pleasing surface of the original finish was retained.

The use of the "Hysorb" label will require a simple license for quality control and trade mark protection. No royalties or license costs are involved in the use of the trade mark or the finish, the company said.

Added fire for red shades

Here's the dyestuff that will give you the brighter shades of red that are so frequently needed today.

Developed to take care of the all-year use of reds in fashion, and to complement the other Irganols, Irganol Red RLS has all of the fastness properties and good solubility of that range plus a brighter shade of red on wool and nylon and a much brighter shade on silk.

When combined with Irganol Orange GRLS scarlet shades can be obtained that are something to behold. Bulletin now in process.

GEIGY DYESTUFFS—Division of Geigy Chemical Corporation, Saw Mill River Road, Ardsley, New York. Branches in all textile-producing centers. Dyestuff makers since 1859.

Irganol® red RLS

Geigy 200 years Geigy

REPORT FROM JAPAN

By B. Mori

Troubles continue for Japanese textiles

OSAKA.—By late summer, slim signs indicate that the textile slump here has reached bottom. Futures prices for rayon and cotton firmed somewhat. Total inventories of cotton products were slightly reduced. These are perhaps the first results of the drastic production cut-back in effect all this year. However, a much more positive improvement in domestic and export business during the next six months will be necessary before the mills can safely resume operation of machinery now idle.

Curtailments Will Be Maintained

Plans now are to continue the cotton cloth curtailment at 40 to 50% between now and next March—an even more stringent cutback than has been in effect in recent months. Rayon and wool mills will similarly continue to operate at the present reduced scales. Raw cotton imports in the second fiscal half-year (October-March) are being cut even further.

Exports of cotton textiles in the first six months of this year were only 5% below the 1957 period, but June was extraordinarily low and advance bookings for the second six months have been poor.

In contradistinction, exports to the U. S. have held up well, at a rate that promises about 100 million yards for the full year 1958.

Rayon Producers Feel Loss of China Trade

Suspension of interruption of trade with Red China has hurt the rayon industry more than any other textile industry. Rayon is about the only textile product which China wants to buy from Japan in any quantity; and the chance had been seen to unload some of the surplus inventory at at least a break-even price. However, the Communists have been boasting loudly of their growing rayon yarn production (quantities unspecified) and of their plans for expansion.

So if only for political reasons, Japan cannot count on the mainland as a customer. The U.S.S.R. was in the market this summer for a large quantity of rayon yarn, and raised hopes here. But they finally bought the yarn in East Europe.

Quotas on Silk Exports to U. S.

Despite their vigorous protests that Japanese silk fabrics are not competitive with American products, Japanese exporters have been forced to place export quotas on several additional types of cloth, representing in all an important fraction of sales to the U. S. American interests had raised the threat of a tariff-relief petition, and unusual diplomatic and Government pressures were brought to bear on the silk fabric industry to head off the threat by "voluntarily" curbing exports.

Meanwhile, raw silk exports to the U. S. have dropped to the lowest level in several years—a situation made no easier by the fact that Government support purchases now dominate the market here, and neither price, quality nor quantity factors are subject to market demand.

Can Raw Silk Output Be Held Down?

The big question now is how, if at all, the Government can enforce the 20% cutback in raw silk and cocoon production. Unless there is some effective policing, it is considered inevitable that unreported cocoons and raw silk will find their way into the market and, ineligible for Government support purchase, will be sold below the support prices.

The gradual withdrawal of U. S. forces from Japan is removing the source of dollar revenue which in recent past years has balanced Japan's foreign exchange position. The need to promote exports becomes even more urgent, therefore. The "balanced book" plan for 1960 seems to become more and more illusory, as 1959 approaches.

What To Expect in Japan

Alert American businessmen with interest in Japan should therefore prepare to adapt themselves to the following types of measures:

Gradually tightening Government control of exports, production for export, and use of imported materials. In an important segment of the export economy now, Government has a commanding voice in setting prices, production quotas, export quotas, quality requirements.

Gradual Government pressure toward combination of small businesses into cartels in keeping with the above policies, and to eliminate competition.

With Government assistance, a gradual increase in the proportion of business handled by the few big export-import trading companies.

WARNING!

all that glitters is not Metlon!

Despite the fact that most metallics are made of the same basic ingredients . . . aluminum foils and DuPont's Mylar polyester film . . . the end products vary tremendously in their ability to withstand manufacturing processes, and to perform as advertised in the consumer products in which they ultimately appear. Why? Simply because of the way they're fabricated.*

HOW CAN YOU BE SURE THAT THE METALLICS YOU USE WILL LIVE UP TO THEIR GLITTERING PROMISES?

One good way is to insist on Metlon Metallic Yarns. There are six different kinds of Metlon yarns . . . each with different virtues and limitations. The Metlon Corporation tells you exactly what you can expect of each one.

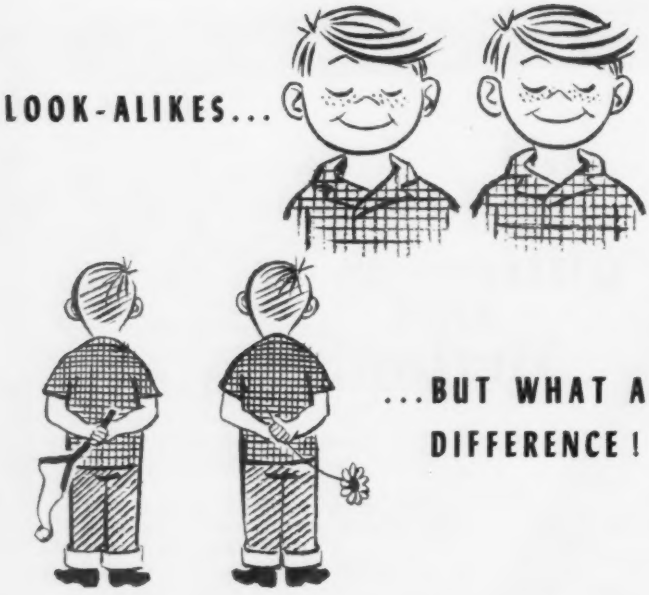
OUR TECHNICIANS WILL HELP YOU TO CHOOSE THE RIGHT METLON YARN

for your particular manufacturing problem. They'll put their years of experience in the exciting world of metallics at your disposal whenever you say. They can save you time, money and returns . . . and their assistance is yours for the asking.

METLON®
with MYLAR*
METALLIC YARNS

*DuPont's Registered Trademark for its Polyester Film.

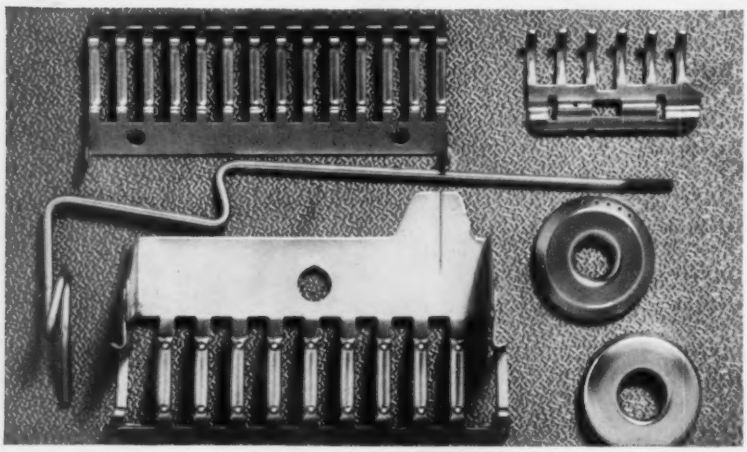
THE METLON CORPORATION, 432 Fourth Avenue, New York 16, N.Y. A Subsidiary of Acme Backing Corporation



The fact that all Hard Chromium Plating looks the same may mislead you.

During 24 years of successful experience, we have proven many times to our customers (many of whom have been with us for 20 years or more) that our fast, efficient service and "know how" mean "dollars in their pockets."

Why go through the trial and error method when we are experts in our chosen field . . . top quality Hard Chromium Plating.



The leading name in textile Hard Chromium Plating, both satin and polished finish.

Walhard

WALTON and LONSBURY

79 NORTH AVENUE ATTLEBORO, MASSACHUSETTS

For the DYER and FINISHER

Vinylpyrrolidone Data

Antara Chemicals, a sales division of General Aniline & Film Corp., has issued a 25-page brochure covering the applications of vinylpyrrolidone. The brochure details copolymerization of vinylpyrrolidone with other monomers for a wide variety of products such as adhesives, coatings and finishes, lube-oil additives, protective colloids, synthetic fibers and textile sizes. *For free copies of the brochure write the editors.*

Organic Synthesis

The fifth edition of "Unit Processes In Organic Synthesis," edited by Philip H. Groggins, has been issued by McGraw-Hill Book Co. The 1,070 page book, priced at $17.50 per copy, presents the industrial techniques used in converting organic raw materials into usable products through mastery of unit processes. The processes described encompass the major reactions in the field of synthetic organic chemistry. These reactions are said to be synonymous with the growth of our civilization and include the production of petrochemicals, plastics, protective coatings, detergents, elastomers, surfactants, dyes, etc. The book stresses fundamental advances in theory as well as in industrial practice. *Copies can be ordered by writing the editors.*

New Felt Cleaner

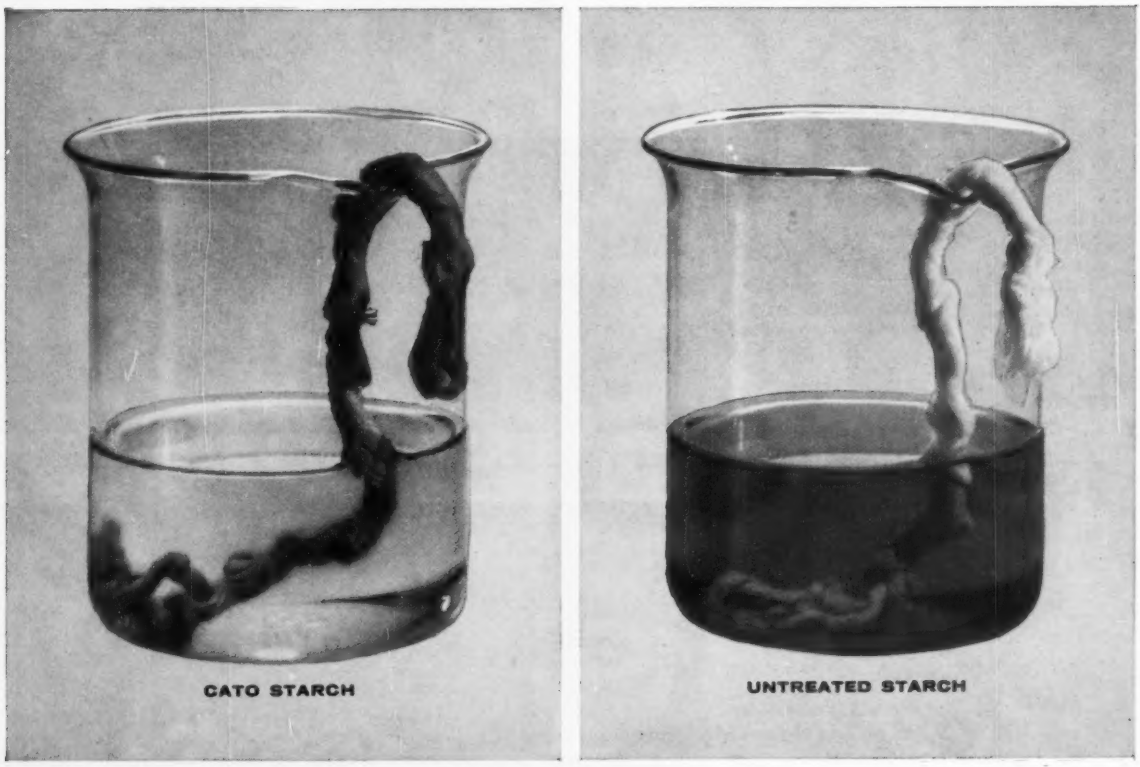
Ciba Co. is marketing a new chemical product, Neovadine AL, for cleaning papermaking felts. Actual mill use, according to Ciba, shows that the felt detergent has no detrimental effects on the highest grades of paper machine felts. Neovadine AL is described as a nonionic compound that is nonfoaming, dissolves readily in water, and is easily rinsed out of the felt. It contains no alkalis and can be applied hot for greater efficiency. *For further information write the editors.*

Booklet on Vat Colors

The Vat Dye Institute has issued a new 16-page educational booklet about vat dyes, their development, use in the textile industry today, and significance to consumers. The factual booklet, "The Story of Vat Dyes," has been prepared in nontechnieal language for students, teachers, home economists, retail store personnel and other interested trade and consumer groups. *For free copies of the booklet write the editors.*

CATO®

CATIONIC STARCH FOR WARP SIZING



IODINE TEST proves greater starch affinity

A simple experiment. Take 100 ml. of solutions of Cato and corn starch at 0.005% concentration. To each add a 1 gram strand of any anionic yarn: cotton, wool, viscose, dacron, or others including blends. Boil for a few minutes. Cool and allow strands to drain as shown above. Now add drops of iodine to the strands and their respective solutions.

What happens?

The blue of the iodine test for starch proves the much greater affinity of Cato to anionic yarns—due to its patented cationic molecular structure. Showing how Cato promotes better adhesion, reduces shedding and improves weaving in warp sizing.

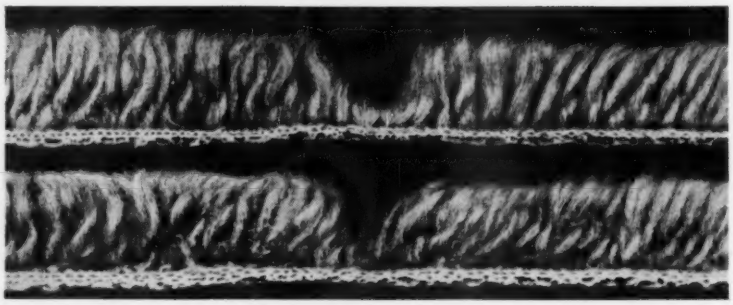
Interested? We'll be glad to supply trial quantities and have one of our textile specialists demonstrate in your plant.

National

STARCH PRODUCTS INC.

750 Third Avenue, New York 17 • 3641 So. Washtenaw Avenue, Chicago 32 • 735 Battery Street, San Francisco 11

You can add years of wear

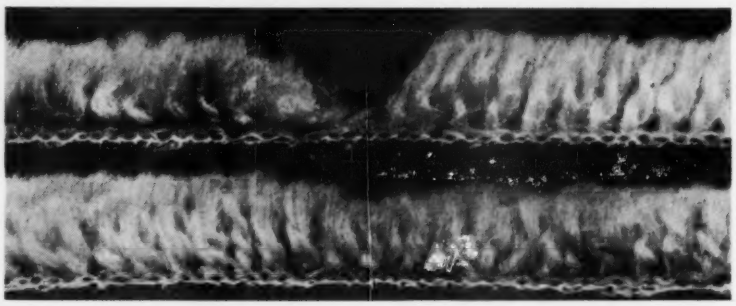


100% WOOL
at the **31,500** Pedestrian
Traffic mark.

80% WOOL/20% IRC NYLON
at the **98,000** Pedestrian
Traffic mark!

when 20% NYLON is added to wool

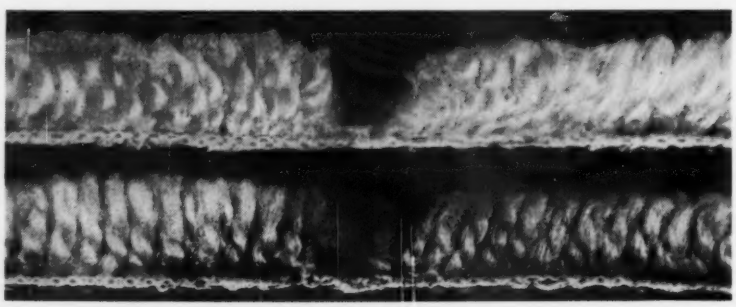
100% ACRYLIC FIBER
at the **72,000** Pedestrian
Traffic mark.



70% ACRYLIC FIBER/30% IRC NYLON
at the **72,000**
Pedestrian Traffic mark!

when 30% NYLON is added to acrylic fiber

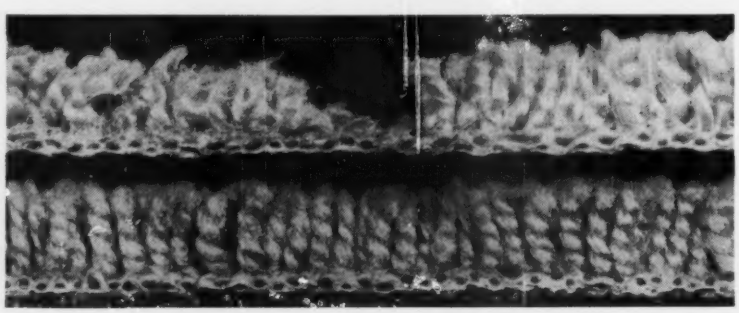
100% RAYON
at the **8,000** Pedestrian
Traffic mark.



70% RAYON/30% IRC NYLON
at the **98,000** Pedestrian
Traffic mark!

when 30% NYLON is added to rayon

100% ACETATE STAPLE
at the **51,000** Pedestrian
Traffic mark.



80% ACETATE/20% IRC NYLON
at the **65,000** Pedestrian
Traffic mark!

when 20% NYLON is added to acetate staple

to carpet made of any fiber

by blending it with

I·R·C NYLON

"How does it wear?" That's the question consumers are asking today when they buy carpeting. And here's visual proof that when you add nylon, you add long wear. Name your carpet fiber: wool, rayon, acetate, acrylic...you can improve them *all* by adding nylon. In blends, nylon adds miles of wear, years of life to carpeting made of every other fiber.

Nylon adds permanent texture and crush resistance, too. Nylon also adds *vitality* to colors—a sparkle and clarity that last the entire life of the carpet. Nylon is the fiber that adds all-around performance to carpeting.

THE NYLON FIBER DIVISION, INDUSTRIAL RAYON CORPORATION
500 Fifth Avenue, New York 36, N.Y. · 627 Guilford Building, Greensboro, North Carolina

THE NEW Nylon Staple I·R·C

Do not compare the four tests pictured here against each other. Compare only the 100% construction against the blend of the same fiber. Within each test, the 100% construction is identical to the blend in every respect but fiber content. These unpadded pieces of carpeting were laid on bare, rough steps for the toughest practical test.

Dyeing Notes

(Continued from Page 84)

Textile Finishing Data

The Plastics Division of Celanese Corp. of America has issued a new technical bulletin, "Textile Finishing With Celanese Polyvinyl Acetate Emulsions." The bulletin, NP-28, describes results obtainable with the emulsions in finishing fabrics of cotton and of man-made fibers. *For free copies of the bulletin write the editors.*

Flocculating Agent

Separan NP20, a new polyacrylamide-type flocculating agent, has been added by The Dow Chemical Co. to its family of flocculants. Separan NP20 is a synthetic, organic, water-soluble, high molecular weight polymer which is produced as a white amorphous flake. The new flocculant should be of special interest to the pulp and paper, mining, general chemical processing and industrial waste treatment fields, according to Dow. *For further information write the editors.*

Offers Lead Nitrate

Hummel Chemical Co. is offering lead nitrate of 99.2 per cent purity, and which can be used in the manufacture of dyes, pigments, flotation agents, paints and explosives. The lead nitrate, a strong oxidant, also has many other commercial applications. *For further information write the editors.*

Southern Dyestuff Sold

American-Marietta Co. reports it has become a major producer of dyestuffs through its recent acquisition of the business of Southern Dyestuff Corp. Southern Dyestuff, which has a 50% interest in the Naegeli, S.A., of Rio de Janeiro, Brazil, one of the largest sulfur dye producers in Latin America, is a supplier of vat, sulfur and pigment dyes to many segments of textile industries in the U. S., Canada and other textile producing countries.

Discharge Assistant

Algepon PD a new discharge printing assistant, has been developed by Arkansas Co., Inc. The product is said to be effective on practically all pigments, including those of the hard-to-discharge phthalocyanine type. Algepon PD is used in conventional printing pastes and is usually compatible with the ingredients ordinarily used in such pastes. Phthalocyanine pigments can be reduced to a clear white sharp pattern within five to ten minutes in the steam ager, according to Arkansas. *For further information write the editors.*

Yarn Softener, Detergent

Proctor Chemical Co. has announced the addition of Melotone O, a combination anionic softener and detergent, to its line. The new product is said to have excellent resistance to yellowing and does not affect the shade or light and wash fastness of dyed yarn. *For further information write the editors.*

Etherized Starch-Resin

Solvitose HDF, an etherized starch-resin finish for cotton and synthetic fabrics, has been announced by Morningstar-Paisley, Inc. A cold-water-soluble, the starch ether cuts time and costs in the preparation of the finishing solution, according to Morningstar, and provides maximum fabric hand durability through repeated launderings, even in solutions containing the new powdered bleaches. These bleaches, Morningstar states, tend to "pull" the body out of fabrics even more than the older liquid chlorine-type bleaches. When Solvitose HDF is used, the bath requires no cooking and subsequent cooling; only agitation is needed as the starch ether is added. *For further information write the editors.*

NON-FLUID OIL

TRADE MARK REGISTERED

KEEPS BEARINGS COOL

NON-FLUID OIL "stays alive" longer than ordinary greases, lubricating dependably until entirely consumed, because it is *all* lubricant. It keeps ball and roller bearings cool, saving time and lubricant.

This extra lubrication life is due to special processes used in the manufacture of strictly neutral NON-FLUID OIL, which gives it greater stability and protective properties than ordinary greases.

Follow the leadership of seven out of every ten successful textile mills—use NON-FLUID OIL and be sure. To convince yourself, send for a free testing sample and instructive bulletin No. 506.

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NON-FLUID OIL is not the name of a general class of lubricants, but is a specific product of our manufacture. So-called grease imitations of NON-FLUID OIL often prove dangerous and costly to use.

The Finest Sheerest Ladies Seam-Free Nylons

SCOTT & WILLIAMS, INC. Est. 1865 STANDARD IN THE KNITTING INDUSTRY LACONIA, N.H. U.S.A.

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Francis E. Grier

(Continued from Page 34)

ton, Stevens, Lowenstein, Dan River — Abney Mills, under the wise leadership of F. E. Grier has managed to achieve the growth in looms, spindles and diversity of fabric output that seems essential for survival in the highly competitive textile world of today. The compelling reason for growth is explained this way by Grier himself: "A really large fabric manufacturer can compete successfuly with other outfits even larger than itself."

Although it is a giant among the giants, Abney today retains a number of characteristics of the small mills of which it was put together. For one thing, it is a family-owned business. With the exception of 50 qualifying shares divided equally among directors who are not members of the Abney family, all the stock is held by members of the Abney family.

Another small organization characteristic of Abney Mills, which distinguishes it sharply from some of its competitors, is the "thinness" of its executive and clerical staff, and the relaxed, informal manner that prevails in the company's Greenwood headquarters. So far, Abney has managed to avoid the tendency, that seems unavoidable to so many large corporations, to increase its salaried staff workers beyond the number needed for the usual functions of keeping records and making up payrolls.

Grier himself can be easily seen when he is in Greenwood by anyone who has plausible reasons for wanting to do so. He sits, apparently with plenty of time for visitors, in his comfortable, unpretentious office which more closely suggests that of a college professor such as his father was, or that of a minister of a church, such as his three brothers, than the sanctum of the head man of a big textile mill group.

Many of the visitors who do find their way into his office come to discuss other matters than the affairs of the Abney and Erwin mills. It may be a banker looking for guidance on how to arrange a merger of his bank with another. More likely it is apt to be a visitor counseling with Ebe Grier on the many activities on behalf of his community and his church to which he devotes a large share of his limited time and unlimited energies.

Among these activities are the Associate Reformed Presbyterian Church of which he is an active leader. He is not only an elder of the church in his home city of Greenwood, but remains to this day, treasurer of Erskine College, a responsibility he first assumed at the age of 22.

With regard to the future of the textile industry, Grier, like so many other textile leaders these days, is a qualified but strong optimist. He believes that the textile industry is essential to the well-being of the country and that the productive capacity of the industry is gradually being brought into a favorable relation with expanding demand. However, he conditions his optimism with a big "if." He sees the industry's future one of growing prosperity *if* it is able to obtain tariff legislation or the imposition of quotas that will prevent its markets from being flooded and its price structure from being undermined by imports from low-wage countries. It is not only cloth imports from Japan that must be kept down, he points out, if the American fabric manufacturing industry is to be assured of a fair profit on its investment; there is also the danger from other countries such as India and Pakistan whose standard of living and wages are fantastically low compared with the United States, and who are rapidly expanding their textile manufacturing facilities with a sharp eye on greater export sales.

Whether the American textile industry will receive the protection against imports that it needs and deserves is, of course, a question which Grier cannot answer. As one of the active leaders of the American Cotton Manufacturers Institute and one of its past presidents (1955-1956) he has done a great deal to draw public attention to this threat to the future of American textiles. He permits himself the hope that these efforts, along with the efforts of so many others, will in time bring Congress to effective action to safeguard the future prosperity and continued growth of American fabric manufacturing.

Polyethylene Emulsion Softener

Allied Chemical Corp. has developed an entirely new type of textile finishing agent, based on a polyethylene emulsion, and designed to increase the life and improve the softness of garments made with synthetic or natural fibers. The wax-like polymer, being marketed by the company's Semet-Solvay Petrochemical Division under the name of A-C Polyethylene 629, is expected to have particular significance to the "wash-and-wear" field.

Thermosetting resins, essential to wash-and-wear fabrics, have two serious shortcomings, according to Allied. They cause a poor hand and reduce fabric strength. To offset these disadvantages, silicones and fat base softeners were tried. The first, however, are too costly, Allied asserts, while the less expensive fat base softeners tend to wash out of treated garments after a few launderings.

Allied after two years of research and testing, found that the use of relatively small amounts of emulsifiable polyethylene greatly increased fabric tear strength, improved hand and added further laundering advantages. The tests also are said to show the emulsion to be completely compatible with other chemicals used in the finishing of cloth. Other advantages reported are: no discoloration, light-fastness of dyes unaffected, and complete sunlight resistance.

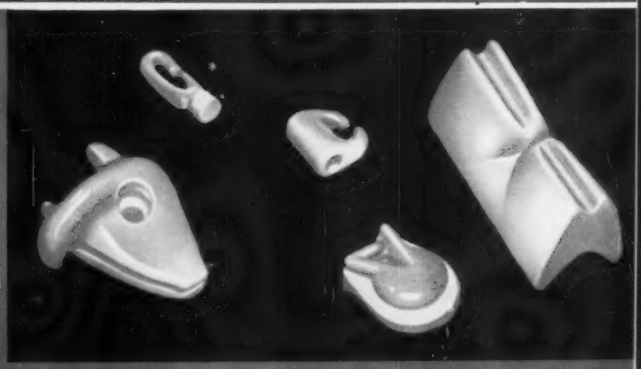
Allied states that under normal household wash temperatures, the new finishing agent will not wash out. Tests show no scorching on treated cotton cloth at 400 degrees F. after one minute. Also, the lubricant properties of emulsifiable polyethylene are said to make ironing easier by reducing friction between iron and cloth. Several liquid starch manufacturers are investigating the use of emulsifiable A-C Polyethylene for this reason.

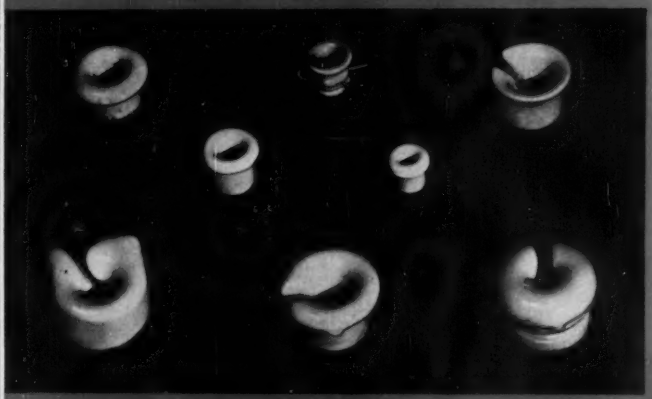
Allied believes that, in most applications, it is advantageous to prepare high concentrations of stock emulsions which can later be diluted to the required strength. The concentrate, which employs 20-30% solids, is added to the pad box. In specialty applications, the use of anionic and cationic emulsions are sometimes desired; but for most applications the use of the nonionic system is generally preferred because of the compatibility and stability with conventional finishing formulations.

MACHINERY and EQUIPMENT SECTION

MITCHELL-BISSELL THREAD GUIDES

For Every Textile Service . . . For More Than 70 Years



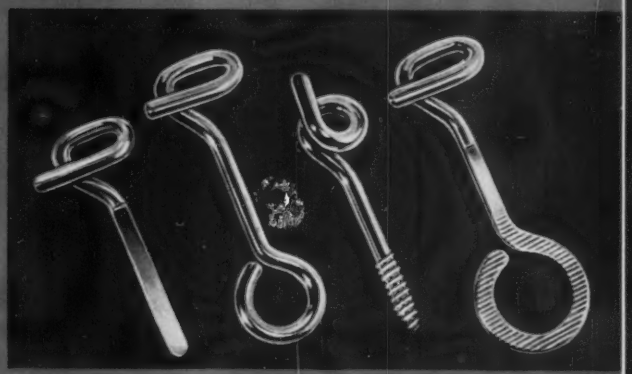


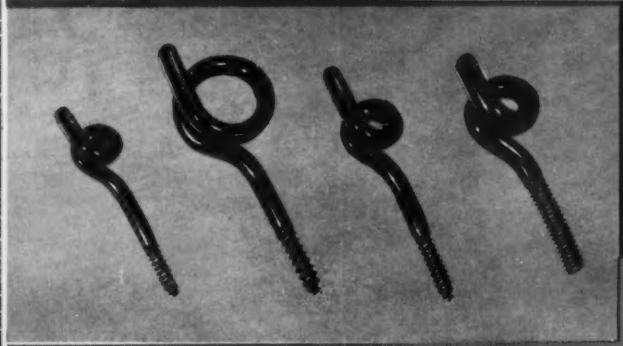
Above—"BLUE SATIN FINISH" PORCELAIN GUIDES.
An exclusive development of Mitchell-Bissell—guides with this finish are more resistant to thread wear than any glazed porcelain guides ever offered the industry. "Blue Satin Finish" Guides, instead of being shiny and glass-like, have a surface of thousands of small rounded grains closely packed together. Reduced wear and longer guide life result because, by breaking the continuity of contact between yarn and guide, friction is reduced. * U. S. Pat. No. 2,152,136.

Left—WHITE GLAZED PORCELAIN GUIDES.
The Mitchell-Bissell Company originated the use of porcelain as a thread guide for the textile industry. The white Glazed Porcelain Guides shown here are representative of thousands of patterns that have been sold to all branches of the textile industry since this company was founded over seventy years ago. Improved in quality from time to time they are still "standard."

Right—CHROMIUM PLATED STEEL GUIDES.
The plating on Mitchell-Bissell Chromium Plated Steel Guides is harder and denser than on any other wire guides. Our methods of fabricating and polishing develop a surface smoothness, with a mirror finish far beyond usual commercial standards. Because of their superior resistance to thread wear these guides are used extensively on machinery for processing rayon and nylon yarns and also for many other severe applications. Also available in Satin Finish.

Below—ENAMELED IRON GUIDES.
Where wire guides are desired, and service conditions do not require chromium-plated guides, our Enameled Iron Guides give exceptionally good service, with a low initial cost. Made with the care and craftsmanship that are standard practice on all Mitchell-Bissell products, these are recommended as centering and ballooning guides, and for cotton, woolen and other soft yarns.





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TRENTON, N. J.

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Kenyon's years of pioneering work in exacting heat-controlled processing put us in a position to furnish superior processing techniques for ARNEL and ARNEL MIXTURES.

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Kenyon
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Celanese®
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IS YOUR ASSURANCE THAT THIS FABRIC HAS BEEN TESTED AND HAS PASSED CELANESE STANDARDS OF QUALITY.

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Tel. OXford 5-2060
5-2061

THE Kenyon PIECE DYEWORKS INC.

"KENYON OF KENYON, RHODE ISLAND"

NEW FABRICS

NEW YARNS

Fur-Like Scatter Rugs

Princeton Knitting Mills has introduced in retail stores a new group of deep-pile fabric scatter rugs which blend the look and feel of fur. Called "Pouff," the fur-like rugs are made of a combinaiton of Union Carbide's Dynel and Chemstrand's Acrilan fibers. The rugs are hand or machine washable, dry easily, and are color-fast, moth and mildew proof, according to the manufacturer. As a safety factor the rugs are backed with a rubberized skid and slip-proof surface. *For further information write the editors.*

Nylon Net Pool Covers

Fablok Mills Inc., has developed a knitted nylon net for use as a swimming pool cover. The nylon cover not only keeps stones, leaves and refuse from dropping into the pool but also is said to provide "fireman's net" safety for children, pets and even even heavy adults who stray beyond the edge of unguarded pools. The great strength of the Fablok cover, the manufacturer states, is due to its exclusive all-nylon knit construction—ounce-for-ounce stronger than steel mesh—which also makes for exceptional lightness, easy handling and storage. *For further information write the editors.*

Introduces New Fabrics

Mead and Montague has introduced three new fabrics and Walter Fabrics division of D. N. and E. Walter and Co. has created 12 special designs for the Celanese "New World of Ideas" decorative fabrics program.

One of Mead and Montague's large scale prints, "Cortez," was inspired by an antique door. A jacquard fabric, "Peruvian Texture," with bulked Celaperm filling, was adapted from an aged fabric found in Peru. A third, "Miramar" check, was based on a scarf woven in Argentina.

Seven of the Walter large scale printed panels will be offered as ready made draperies. Designs will be printed on an antique satin of Celanese acetate warp with spun rayon filling. Designs for the Walter fabrics also are based on South American ideas and background.

For further information write the editors.

TDI Plans Stepped-Up Activities

A program of stepped-up activities with broader perspectives of service to the textile industry was put in motion last month by Nat Leavy of Leavy & Goldstein, Inc., newly elected president of the Textile Distributors Institute.

At a special meeting of the board of directors, Leavy pointed out that the Institute has on its board of directors an important group of leading textile distributors. For this reason the Institute, he said, can and must be an active force for good in the industry. This, of course, will require the loyal cooperation of all members, he added—especially the members of the various committees and groups.

Leavy appointed a planning committee charged with the duty of preparing a constructive industry-wide program for the approval of the board of directors not later than its November meeting. Members of the committee include: Louis E. Kates, French Fabrics Corp., chairman; Louis J. Brenner, Shirley Fabrics Corp.; George M. Gibson, William Skinner & Sons; Abe Kirschenbaum Pedigree Fabrics, Inc.; Arthur Raphael, Cameo Fabrics, Inc.; Irving Roaman, Reliable Textile Co., Inc.; Frank A. Rosenhaus, Frankly Fabrics Corp.; Jackson E. Spears, Burlington Industries, Inc.; David Zipser, Chardon Fabrics, Inc.; Nat Leavy, Goldstein & Leavy, Inc., Ex Officio; and Walter Ross, Rosewood Fabrics Inc., Ex Officio.

President Leavy also appointed a number of standing committees to carry out the intent and provisions of the Institute's bylaws.

He also named the following standing committees to carry out the intent and provisions of the Institute's by-laws:

Executive Committee

Nat Leavy, Chairman	Goldstein & Leavy, Inc.
Irving Roaman, Vice-Chairman	Reliable Textile Co., Inc.
Louis E. Kates, Vice-Chairman	French Fabrics Corporation
Louis J. Brenner, Vice-Chairman	Shirley Fabrics Corp.
James P. Marion, Jr., Vice-Chairman	Bloomsburg Mills, Inc.
Ira Jacobson, Treasurer	Cohn-Hall-Marx Co.
Walter Ross, Chairman of Board	Rosewood Fabrics, Inc.
Richard Deneau	Richelieu Fabrics, Inc.
George Greenspan	The Cantor-Greenspan Co., Inc.
Samuel Schwartz	Cadillac Textiles Incorporated
Jack H. Simon	Blue-Simon Corporation

Finance Committee

Ira Jacobson, Chairman	Cohn-Hall-Marx Co.
Irving Roaman, Vice-Chairman	Reliable Textile Co., Inc.
Louis E. Kates, Vice-Chairman	French Fabrics Corporation
Louis J. Brenner, Vice-Chairman	Shirley Fabrics Corporation
James P. Marion, Jr., Vice-Chairman	Bloomsburg Mills, Inc.
Arthur S. Heiman	Arthur S. Heiman, Inc.
Abe Kirschenbaum	Pedigree Fabrics, Inc.
Jackson E. Spears	Burlington Industries, Inc.
A. J. Wullschleger	Wullschleger & Co., Inc.
Nat Leavy, ex officio	Goldstein & Leavy, Inc.
Walter Ross, ex officio	Rosewood Fabrics, Inc.

Membership Committee

Richard Deneau, Chairman	Richelieu Fabrics, Inc.
Edward Folker	Folker Fabrics Corporation
Walter A. Hyman	Maxwell Textile Div. L. Hyman Co.
Jack Litwack	New England Textile Co.
James P. Marion, Jr.	Bloomsburg Mills, Inc.
Arthur Raphael	Cameo Fabrics, Inc.
Frank A. Rosenhaus	Frankly Fabrics Corporation
Jack H. Simon	Blue-Simon Corporation
Philip Vogelman	Onondaga Silk Co., Inc.
Nat Leavy, ex officio	Goldstein & Leavy, Inc.
Walter Ross, ex officio	Rosewood Fabrics, Inc.

Public Relations Committee

Jackson E. Spears, Chairman	Burlington Industries, Inc.
Louis J. Brenner	Shirley Fabrics Corporation
George Greenspan	The Cantor-Greenspan Co., Inc.
Ira Jacobson	Cohn-Hall-Marx Co.
Louis E. Kates	French Fabrics Corporation
James P. Marion, Jr.	Bloomsburg Mills, Inc.
Irving Roaman	Reliable Textile Co., Inc.
Philip Vogelman	Onondaga Silk Co., Inc.
Nat Leavy, ex officio	Goldstein & Leavy, Inc.
Walter Ross, ex officio	Rosewood Fabrics, Inc.

In addition, a committee on contract relations was appointed by Leavy for the purpose of reviewing the various trade practices existing in the industry and to bring the salient facts together in a written proposal to the board of directors at the earliest possible date.

Dinner-Dance Committee Named

A committee to take charge of arrangements for the Institute's 20th annual dinner dance in the fall has been appointed by president Nat Leavy. The committee includes: George Greenspan, The Cantor-Greenspan Co., Inc., Chairman; Arthur Arnoff, Shirley Fabrics Corp.; Richard Deneau, Richelieu Fabrics, Inc.; Jack Litwack, New England Textile Co.; Richard Roaman, Reliable Textile Co., Inc.; Norris Rosenhaus, Frankly Fabrics Corp.; Donald Schulman, Cameo Fabrics, Inc.; Samuel Schwartz, Cadillac Textiles Inc.; Jack H. Simon, Blue-Simon Corp.; A. J. Wullschleger, Wullschleger & Co., Inc.; Nat Leavy, Goldstein & Leavy, Inc., Ex Officio; and Walter Ross, Rosewood Fabrics, Inc., Ex Officio.

Associate Memberships Dues Fixed

Factors and bankers are now eligible for associate membership in the Textile Distributors Institute along with yarn producers, mills, dyers, printers and finishers. In July, the Institute's constitution was amended to provide for admission of factors and bankers following an earlier amendment in June which made for admission as associate members of the other categories mentioned above.

The Institute has fixed the dues for dyers, printers and finishers at $100 a year. Dues for the other categories of associate memberships have been set at $200 annually.

Appoint Chairmen for End-Use Groups

Chairmen have been named by President Leavy for the new end-use groups into which the Institute's members are now divided. The end-use groups replace the former division of members into fabric groups. The chairmen are:

Men's & Boys' Woven Fabrics Group; Joseph D. Froelich, Chairman, Gracedale Fabrics, Inc.

Men's & Boys' Knitted Fabrics Group; Philip Wick, Chairman, Philip Wick Company.

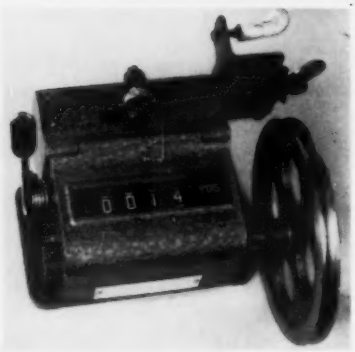
Women's & Girls' Woven Fabrics Group; Richard Roaman, Chairman, Reliable Textile Co., Inc.

Women's & Girls' Knitted Fabrics Group; A. J. Wullschleger, Chairman, Wullschleger & Co., Inc.

Home Furnishings Fabrics Group; Melvin Deutsch, Chairman, Cohn-Hall-Marx Co.

Over-The-Counter Fabrics Group; Frank D. Levi, Chairman, Belding Heminway Corticelli.

New MACHINERY
New EQUIPMENT

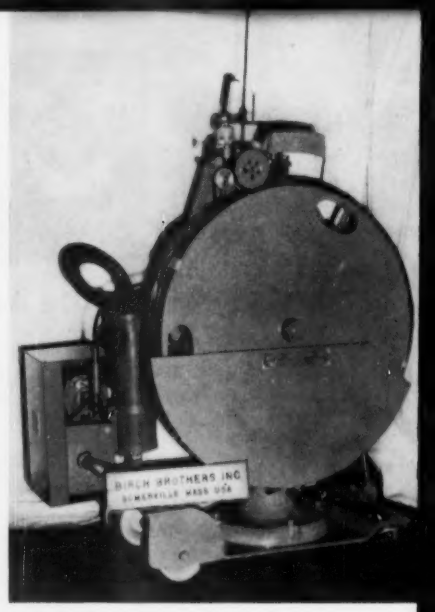


Thread Measurer

Trumeter Co. is marketing a new thread measuring device with automatic cutter. This unit comprises a special predetermined counter fitted with a "V" grooved measuring wheel. After measuring the pre-determined length, the cutting device automatically severs the yarn or thread. Its use on automatic pirn, cheese and cone type winders will result in uniform lengths and avoid waste, according to Trumeter. The unit is fitted with "easy setting" pre-determined wheels and quick-lever resetting for repeat run. *For further information write the editors.*

Butt-Seam Sewing Machine

Birch Brothers, Inc. has been assigned a patent on its automatic "Supreme" gray room butt-seam sewing machine. It is used primarily in the gray room for high production piece and butt seaming of gray goods before the start of bleaching and finishing operations. The machine requires one operator whose sole function is to match ends and lay them on the feed wheel. From that point on, the machine automatically feeds the ends to the needle at its high speed; at this point it changes to its slow speed and inserts double the normal number of stitches in one to two inches of the selvage for reinforcement. Production rates exceeding 240 reinforced, marked, and trimmed seams per hour have been reported. *For further information write the editors.*



Birch Butt-Seam Sewing Machine "Supreme"

New GE Textile Motor

General Electric Co.'s Small A-C Motor and Generator Department has announced an all new textile motor, available for 7½ through 25 horsepower. It is designed for use on spinning and roving frames, pickers, opening equipment and for other textile mill applications. The new motor features an exclusive endshield designed for maximum expulsion of lint, according to GE. *For further information write the editors.*

Rotary Liquid Agitator

New Brunswick Scientific Co. has produced a newly designed rotary liquid agitation laboratory apparatus for use in the dyestuff, ink, paint and paper fields. The unit, Model ST Spinnerette, is electrically operated and is said to eliminate the need for manual shaking of test tubes or small vessels. The Spinnerette weighs only 24 pounds and can be used anywhere, on a work table or mounted on a wall. It has four rotating speeds, of approximately 15, 30, 45 and 80 cycles per minute, plus a changing tilt angle of platform to provide optimum variation in rate of mixing or agitation. *For further information write the editors.*

AIR GUIDER'S

selvage finger points the way to these four-fold savings in hundreds of textile finishing plants:

SAVINGS NO. 1 Eliminates fabric spoilage; reduces damage and loss.

SAVINGS NO. 2 Cuts handling costs.

SAVINGS NO. 3 Reduces expensive equipment repairs and machinery down-time.

SAVINGS NO. 4 Provides textile operating economies that continue year after year.

- Guides within 1/16-inch from 1 to 400 ypm.
- Maintains constant cloth alignment.
- Simple . . . no counter weights nor linkages.
- Handles woven and non-woven fabrics from lightest to #8 duck.

Put these profitable savings to use in your plant. Write for Mecho Air Guider catalog today.

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Howard Bros. engineers and research men are continually co-operating with key men—right in their own mills—in developing card clothing that meets the requirements of boss carders who know what they want.

This co-operation, backed by Howard Bros. 92 years of experience in making card clothing, is responsible for the proved production performance of today's TUFFER.

Let TUFFER prove itself to YOU ON YOUR CARDS!

We will look for You at Booths 252-253 at the Southern Textile Exposition in Greenville, October 6th to 10th

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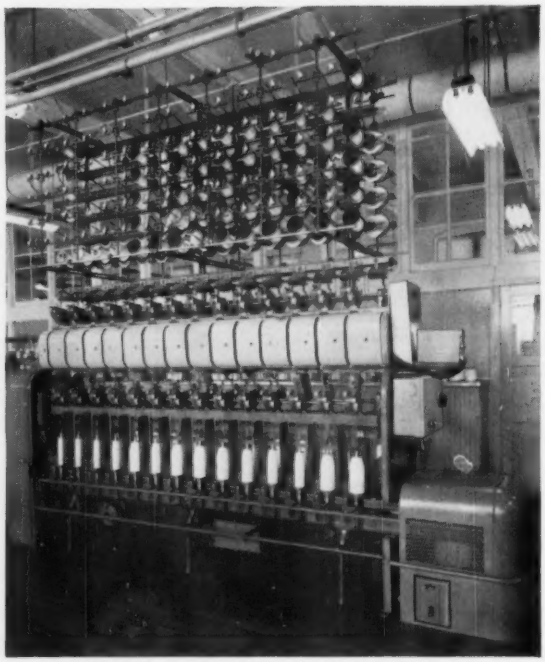
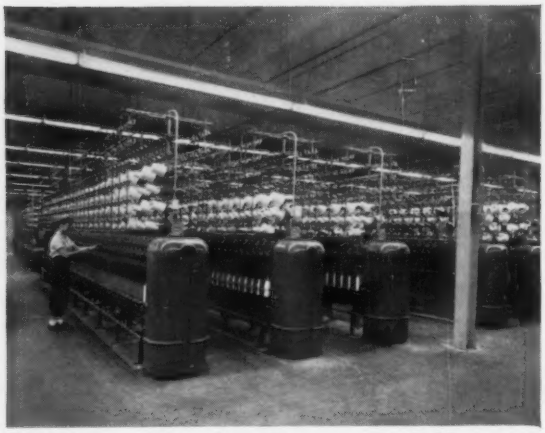
See Some of Many Results You Get

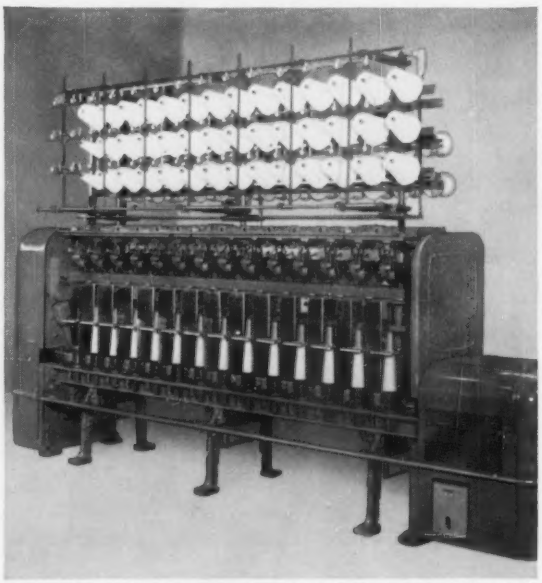
from the Model 10 Ring Twister



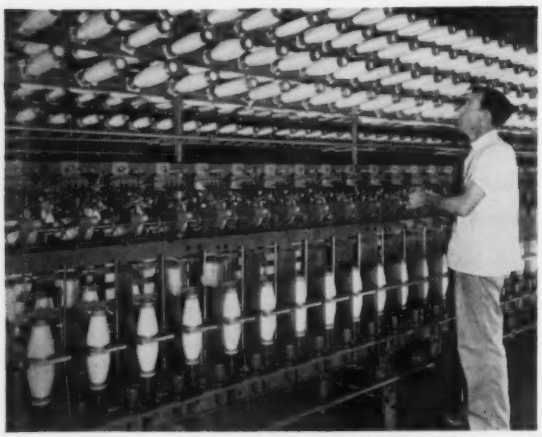
Only the Model 10 can use the No. 511 Saaba* attachment, to process uniform, top quality Saaba, the last word in textured yarn.



Worsted, spun synthetic and metallic yarns can be plied from cones, and taken up on large packages.

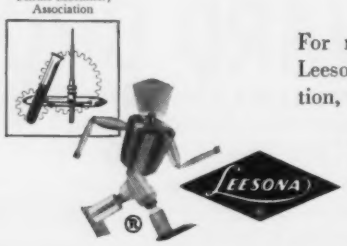


Model 10 can take up yarn on cones, also produce straight wind, taper-top, and double tapered packages (filling or warp wind).



Glass yarn can be twisted from pirns to double-taper packages, and be used for filling and warping without rewinding.

Member American Textile Machinery Association



23.7.7

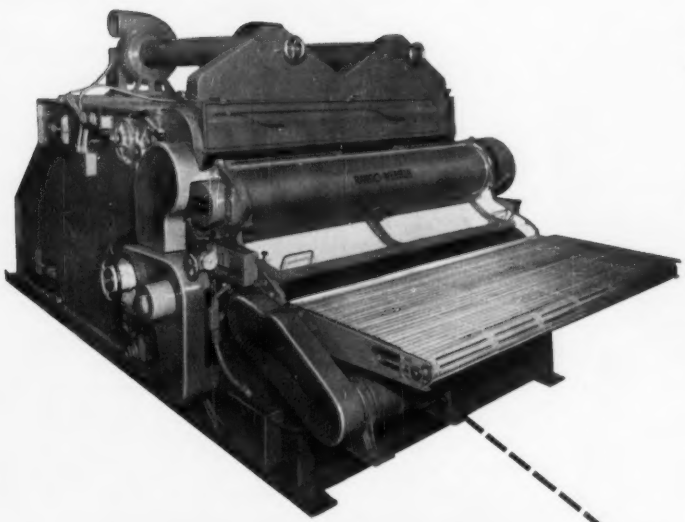
For more information on how the versatile, low-maintenance, Leesona Model 10 Ring Twister can improve your twisting production, write for Bulletin 10-A.

UNIVERSAL WINDING COMPANY, P. O. Box 1605, Providence 1, R. I.

Sales Offices: Boston, Philadelphia, Charlotte, Atlanta, Los Angeles; Montreal, Hamilton, Canada; Manchester, England; Paris, France; Basle, Switzerland.

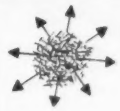
**SAABA is a trademark of Universal Winding Company*

In the manufacture of Non-wovens, you get the MOST with RANDO-FEEDER® and RANDO-WEBBER®



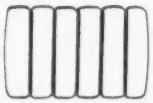
Available in 40", 60" and 84" widths

LOOK AT THESE ADVANTAGES:

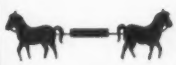


Equal strength in all directions.

No waste—at least 98% fiber returned as web



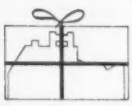
Low cost raw material



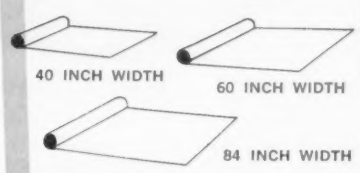
Stronger webs where delamination is diminished or eliminated. Normally entire web is formed in one layer.

Flexible—controlled with the turn of a knob.

½ oz./sq. yd. TO 30 oz./sq. yd.



Package unit ready to operate with all motors and guards included. Electrical, air, and water connections are all that is required.



40 INCH WIDTH

60 INCH WIDTH

84 INCH WIDTH

3 models for producing random web with square, even selvages.

TEXTILE DIVISION

CURLATOR®

CORPORATION

EAST ROCHESTER, NEW YORK

WRITE for complete details in Bulletin No. 105. Inquiries invited.

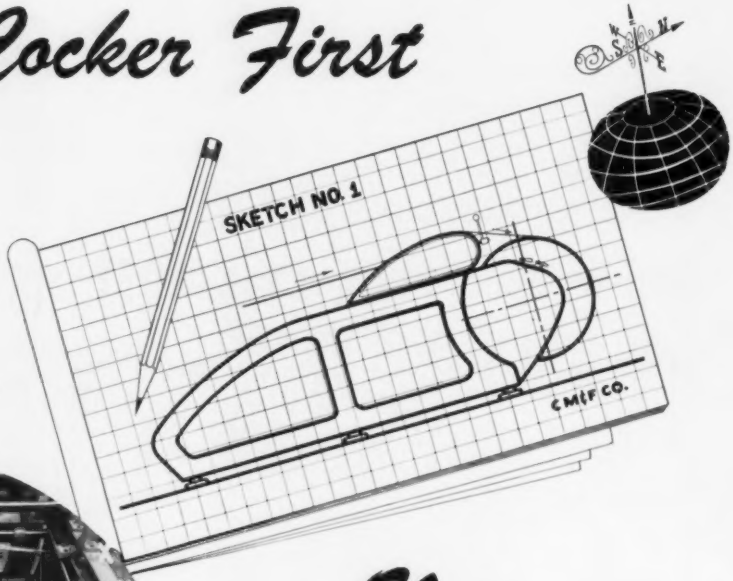
EXPORT REPRESENTATIVES: Lendt & Company, 535 Fifth Ave., New York 17, N. Y.

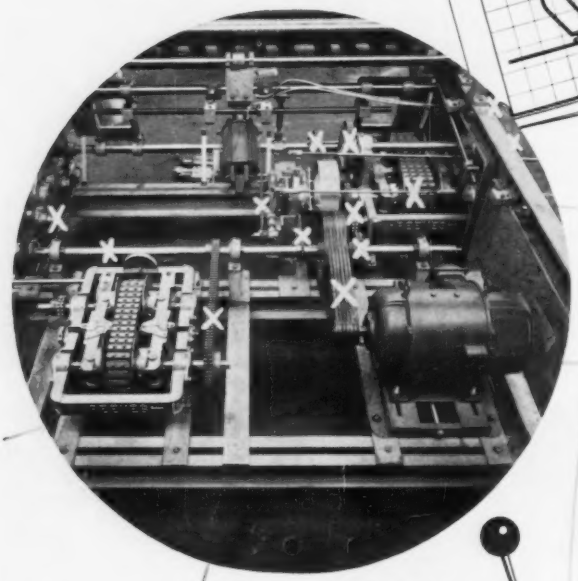
SOUTHERN REPRESENTATIVE: Parrott & Ballentine 510 South Carolina, National Bank Bldg., Greenville, S. C.

Another Cocker First

Cocker was First with

- Multiple Cylinder Slasher for Cotton
- Finger Tip Stretch Control
- Mechanical Compensating Beam Drive





X THESE PARTS ARE ELIMINATED

GREENVILLE

Now

First with Slasher Torque Tube Drive

Lower Initial Cost
Less Maintenance
Highest Operating Speed
Fast Simple Doffing
Easy Adjustment for Beam Width
Self Locking Driving Head
Convenient Controls
Clean Modern Design

See this New Cocker Torque Tube Drive at Sections 836 and 837 Southern Textile Exposition

In Canada and New England:
Contact W. S. Clark, Montreal, Canada
Melrose 1-3751

THE LEADER COCKER AROUND THE WORLD

Machine & Foundry Co., Gastonia, N. C.

Plant and Offices at Ranlo, N. C. (Mailing address, Gastonia, N. C.)

WORLD'S LARGEST DESIGNERS AND BUILDERS OF COMPLETE WARP PREPARATORY EQUIPMENT

Advance exhibitors' directory

20th Southern Textile Exposition

Greenville, S. C. October 6-10

As OCTOBER 6 approaches, a great migration begins throughout the textile industry. From every corner of the country where yarns and fabrics and textile equipment are manufactured, thousands of men begin to move toward the city of Greenville, S.C. to attend the enormous Southern Textile Exposition held at Textile Hall. Every day from Monday, Oct. 6 through Friday, Oct. 10, the big old-fashioned auditorium with its many additions and annexes will be crowded from nine in the morning to six at night with dense throngs of mill people looking at a wide ranging variety of equipment—from brooms to looms, and from marking crayons to spinning frames —used in the manufacture and sale of yarns and fabrics.

This year, according to Miss Bertha Green, director of the exposition, there will be available still another of the many annexes added to the original hall since the show was begun in 1915. The new annex will add 7,000 square feet of exhibit area making the total area more than 100,000 square feet, more than double the footage used in 1950.

This year's Exposition will continue the trend of recent years toward an increased display of basic textile machinery, with the emphasis on higher speed machinery for faster manufacturing of yarns and fabrics. Virtually all major manufacturers of textile machinery have taken space, and most of their exhibits will be "live" in that they will show the machines in action just as they would be used when installed in mills for production runs.

For the last Exposition two years ago there were 307 exhibitors—a record number—along with some 37,-000 visitors. This year's turnout of exhibitors and visitors is expected to exceed 1956.

Exhibitors & Exhibits

ABBOTT MACHINE CO.
GREENVILLE, S. C.—(814-15)

EXHIBIT: Their 12-Spindle Automatic Model II Radial Quiller and their 40-Spindle Standard Model II Automatic Quiller, both 10,500 spindle speed; and their 52-Spindle Automatic Cheese Winder. All machines to be in continuous operation.
IN ATTENDANCE: S. L. Abbott, W. L. Perry, F. L. Hendricks, A. P. Apple, L. S. Ligon, S. A. Roane, L. S. Ligon, Jr., E. W. Skinner.

ABINGTON TEXTILE MACHINERY WKS.
NORTH ABINGTON, MASS—(829)

EXHIBIT: The latest complete Abington Vacuum Card Stripping System for Revolving Top Flat Cards in operation. Also display of their Hand Knotters.
IN ATTENDANCE: John W. Burbine, W. W. Brame, M. R. Bradley, Sumner Smith, Jr., Francis J. Richardson, Oliver H. Ramo.

ACME STEEL CO
CHICAGO, ILL.—(517, 341, & 342)

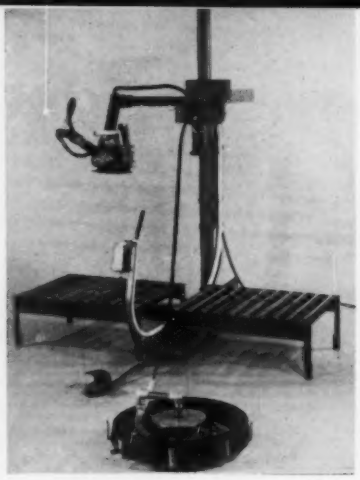
EXHIBIT: A metal Slotted Angle for building shelving from their Fabricated Materials Division; Model E41 Power Feed Unit, Model A4 Steelstrapper, Model E33 Steel Strap Dispenser, F1 Strapping Machine and manually operated tools and accessories from their Acme Steel Products Division.
IN ATTENDANCE: W. B. Bender, M. G. Niergarth and R. H. Lovelace, all of Fabricated Materials Div. G. R. Easley, D. C. Jorgensen, M. M. Brown, J. B. Farr, E. H. Jones, E. S. Lumpkin, J. N. McLean, C. E. Paul, J. B. Quarles, J. H. Scott, S. F. Woodley and R. M. Snodell, all of Products Div.

ADAMS, INC.
GREENVILLE, S. C.—(451)

EXHIBIT: Their Stop Motion for roving frames "Adamstop".
IN ATTENDANCE: S. J. Adams.

ADDRESSOGRAPH-MULTIGRAPH CORP.
CLEVELAND, OHIO—(362-63)

EXHIBIT: Various types of Addressing Machines including production machines for production order writing in the textile field; Multigraph Duplicators and high speed Duplicating equipment.



Acme's new A4 Steelstrapper.

In Attendance: D. F. Green and J. A. Mathews.

AKRON SPOOL MFG. CO.
HIGH POINT, N. C.—(432-33-34)
(with R. E. L. Holt, Jr. & Associates)

ALDRICH MACHINE WORKS
GREENWOOD, S. C.—(269)

ALLEN BEAM CO.
NEW BEDFORD, MASS.—(101)

ALLEN-BRADLEY CO.
MILWAUKEE, WIS.—(413)

Exhibit: Motor Starters, Motor Control accessories and pilot devices.
In Attendance: H. Rosenkranz.

ALLENTOWN BOBBIN WORKS, INC.
ALLENTOWN, PA.—(316)

Exhibit: Bobbins and Spools for the processing of fine denier yarns.
In Attendance: Henry W. Mack.

ALLIED CHEMICAL CORP.
NEW YORK, N. Y.—(263)

Exhibit: Textured Caprolan filament yarns in carpet and upholstery materials.
In Attendance: Daniel M. Holsenbeck, N. M. Gibbs.

ALLIED PRODUCERS & SUPPLY CO., INC., ATHENS, GA.—(301)

Exhibit: Fiber treatments and Spraying equipment; Floor Finishes; Cleaners; and Paint and Varnish Removers.
In Attendance: E. C. Walters, J. A. Rachels, Jr., S. P. Shoemaker, Jr.

ALLIS-CHALMERS MFG. CO.
MILWAUKEE, WIS.—(504-05)

Exhibit: Card Drive and Control; complete line of "Texrope" v-Belt Drive equipment; and integral horsepower close-coupled Pump (Model C-2).
In Attendance: C. B. Rumble, Jr., A. W. Robinson, D. A. Locke, R. W. McKee.

ALLIS, LOUIS CO.
MILWAUKEE, WIS.—(504-505)

ALVEY CONVEYOR MFG. CO.
ST. LOUIS, MO.—(515)

Exhibit: They will feature a Textile Materials Handling news and information center with photographs, blueprints, bulletins and staff of engineers and specialists.
In Attendance: L. D. Burdette, Jr., C. S. Easley, W. H. Oswald.

AMERICAN AIR FILTER CO., INC.
LOUISVILLE, KY.—(437-39)

Exhibit: Operating models of their Auto-Airmat, automatic renewable lint filter and their Electro-Matic electronic precipitator.
In Attendance: R. V. Matkin, Kirk Cousart, E. V. Overcash, T. O. Curler, Jr.

AMERICAN CRAYON CO.
SANDUSKY, OHIO—(332-333)

AMERICAN LAVA CORP.
CHATTANOOGA, TENN.—(472)

Exhibit: AlSiMag Thread Guides for the textile industry, including new materials and new designs.
In Attendance: J. B. Shacklett, Jay S. Gosnell, J. W. Crisp, W. J. Geary, W. H. Cooper, W. M. Crittenden, Jr.

AMERICAN MOISTENING CO.
PROVIDENCE, R. I.—(840-41-42-43-44)

Exhibit: In addition to their standard products they will display a number of new items, including their Heliclone Loom Cleaner, their Aero-Miser Atomizer, Automatic Beam Handling Unit, Automatic Floor Sweeper, portable Psychrometer, portable Solution Sprayer and Atomizer Test Stand.
In Attendance: W. A. Mullins, J. D. Johnson, J. H. Waldrip, J. E. Townsend, L. D. Terry, A. A. St. Germain, H. R. Rich, J. Anderegg, M. H. Irons, R. A. Hartley, J. Walmsley.

AMERICAN MONORAIL CO.
CLEVELAND, OHIO—(111-12)

Exhibit: Operating automatic Cleaners for spinning frames, roving frames, and looms. New type Overhead Conveyors.
In Attendance: C. L. Fell, L. R. McEachern, John Browne, V. W. Cook, H. J. Gleaton.

AMERICAN PULLEY CO.
PHILADELPHIA, PA.—(212)
(with Greenville Textile Supply Co.

AMERICAN SAFETY TABLE CO.
READING, PA.—(234)
with Hollister-Moreland Co.

AMERICAN STOCK GEAR DIV.
PERFECTIONS GEAR CO.
HARVEY, ILL.—(106A)
with Ira M. Valentine

AMERICA'S TEXTILE REPORTER
BOSTON, MASS.—(225-226)

ANHEUSER-BUSCH, INC.,
CORN PRODUCTS DPT.
ST. LOUIS, MO.—(513)

ARMSTRONG CORK CO.
LANCASTER, PA.—(816)

Exhibit: Complete line of textile products, including Spinning Cots and Aprons, Loom Supplies, Roll Shop equipment and miscellaneous mill supplies.
In Attendance: T. L. Hill, J. V. Ashley.

ARMSTRONG MACHINE WORKS
THREE RIVERS, MICH.—(443-44)

Exhibit: Steam Traps; glass model, actually operating on steam, showing how condensate is removed from dry cans or other steam equipment; steam-type Humidifiers.
In Attendance: O. E. Ulrich, T. M. Read.

ASHWORTH BROTHERS, INC.
GREENVILLE, S. C.—(122-123)

Exhibit: Card Clothing for all types of cards and napping machinery; Lickerin and Garnet Wires.
In Attendance: A. E. Johnston, Jr.

ASKANIA REGULATOR CO.
CHICAGO, ILL.—(117)

Exhibit: Model 525 Twin Jet Cloth Guide for tenter frames; Model 558 Cloth Guide for tufting machines; and light duty Batch Roll Let-Out Stand with integral hydraulic cylinder.
In Attendance: Frank Markey, E. Schroeder.

ATKINSON, HASERICK & CO.
FRAMINGHAM, MASS.—(481)

ATLANTA BRUSH CO.
ATLANTA, GA.—(418-419)

ATLANTIC GELATIN,
DIV. OF GENERAL FOODS
WOBURN, MASS.—(501)
with Ira L. Griffin & Sons

BACHMANN UXBRIDGE WORSTED CORP.
UXBRIDGE, MASS.—(501)
with Ira L. Griffin & Sons

BANCROFT BELTING CO.
BOSTON, MASS.—(229)
with Wilson F. Hurley

BAHAN TEXTILE MACHINERY CO.
GREENVILLE, S. C.—(139-B & 140)

Exhibit: Looms, Loom Parts and Loom Assemblies.
In Attendance: Paul J. Bahan, C. L. Greene, J. A. Sammons, W. L. Wilson, W. H. Maudling.

BAHNSON CO., THE
WINSTON-SALEM, N. C.—(830-831)

Exhibit: Air Washer, Fan-Duct and Grilles; Atomizers, Humidifiers, Humiduct; Air Filters; End Collection; Cross-Jet Cleaner; Allred-Aire-Sweep Cleaner; Automatic Doffing and Material Conveying; Central Heat Removal.
In Attendance: Arthur E. Thomas, Frederick Boxall, Agnew Bahnson, Jr., Grady Byrum, R. B. Crosland, F. W. Walters, W. B. Ellis, Tom Elder, Ira Brown, Joe Browning.

BARBER-COLMAN CO.
GREENVILLE, S. C.—(254-56 & 259-61 & 218)

Exhibit: Their new 20-Spindle Type DD Spooler furnishing a cone shaped package containing up to 6½ pounds of yarn to be used on twisters, rewinders and for knitting.
In Attendance: R. G. Ross, F. D. Taylor, L. L. Lideen.

BARRELED SUNLIGHT PAINT CO.
PROVIDENCE, R. I.—(223A)

Exhibit: "Magic Brush" display featuring their Engineered Paints for textile plant maintenance and their Engineered Color for better seeing and working conditions.
In Attendance: Henry A. Solie, John F. Crawley, E. A. Barrett, Cecil L. Duffie, Preston R. Singletary.

BASSICK CO., THE
BRIDGEPORT, CONN.—(411)

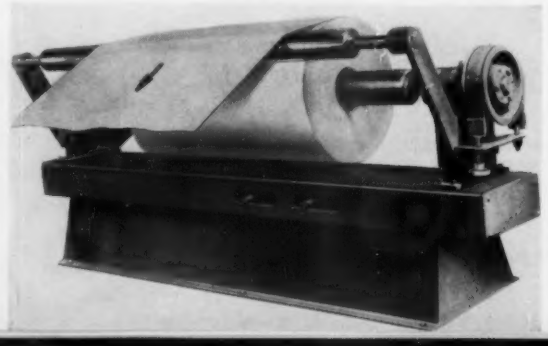
BATSON, LOUIS P. CO.
GREENVILLE, S. C.—(220)

Exhibit: Harness Adjuster for cam and dobby looms; Vibration Mountings and Felt items; Dobby or Gem Head Stirrups; Static Eliminator; Hand Dryers.
In Attendance: Louis P. Batson, Jr., H. Elliott Batson, Harry L. Cannon, John P. Batson, Joe A. Williams, Lee C. Shook, W. Joe Grant, Bill Fox, Frank Hanscom, Ted Ruwitch, Dave Murphy.

BATSON MFG. CO.
GREENVILLE, S. C.—(220)

Representing: T. J. Murphy Fur Co.; Roy Noble Co.; World Dryer Corp.

Exhibit: Wood Products for the textile industry, Pickersticks, Binders, Loom Lathes, Clearer Rolls, Back Stays, Cones, Rolls, Bobbins, Loom Flags, Shuttle Fur, Pinboards, Corduroy Guides, Knives, Temple Rolls, Take-up Roll Covering.



Askania's Batch Roll Let-Out Stand.

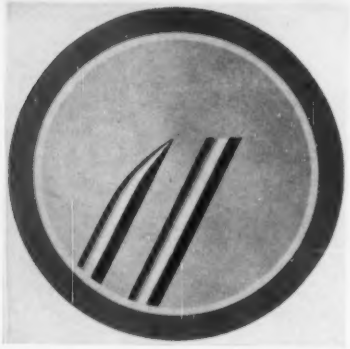


Photo showing Benjamin Booth Co.'s Micr-O-Grind Card Clothing Tooth (left) compared with conventionally ground tooth.

IN ATTENDANCE: John P. Batson, Mrs. Louis P. Batson, Jr., Louis P. Batson, Jr., Elliott Batson, Harry Cannon, Joe Williams, Dave Murphy, Roy Noble.

BEST, EDWARD H. & CO.
BOSTON, MASS.—(110A)

EXHIBIT: Industrial fabrics used by the textile industry.
IN ATTENDANCE: John W. Hill.

BIRCH BROTHERS, INC.
SOMERVILLE, MASS.—(248)

EXHIBIT: Their new Model MF Patented "Supreme" Automatic Gray Room Sewing Machine; one of their Model 1237 Laboratory Padders; an improved version of their "Coronation" Chain Stitch Piece End Sewing Machine; a new "Supreme" Butt-Seam Railway Sewing Machine; and one of their Model 5 Automatic Cut-Off Winders.
IN ATTENDANCE: Clifford W. Birch, Jr., Richard Briggs, John C. Cosby.

BOOTH, BENJAMIN, CO.
PHILADELPHIA, PA.—(468)

EXHIBIT: Demonstration of Micr-O-Grind" with stereo microscope; needle point Card Clothing; Condenser Tapes; Spindle Tapes; and "Strip-O-Matic" Card Clothing.
IN ATTENDANCE: E. A. Snape, Jr., E. A. Snape, III, Norman F. Bush, Charles G. Stover, William F. Crowder.

BOULIGNY CO., THE
CHARLOTTE, N. C.—(826-828)
with Coleman Co., Inc.

BOWEN-HUNTER BOBBIN CO.
EAST CORINTH, VT.—(212)
with Greenville Textile Supply Co.

BRAINARD STEEL DIV.
SHARON STEEL CORP.
WARREN, OHIO—(463)

B & S MACHINE CO., INC.
GASTONIA, N. C.—(275)

BROWNING MFG. CO.
MAYSVILLE, KY.—(126)

EXHIBIT: Running model showing their V Drives, Chain Drives, Beaming Units, Spinning Frame Drives, Pulleys and Couplings.
IN ATTENDANCE: E. A. Smith, T. Frank Jones, L. L. Browning, H. B. Ives.

BULLARD CLARK CO., THE
DANIELSON, CONN.—(422)

E. H. Jacobs, Northern Division, Danielson, Conn. and E. H. Jacobs Southern Division, Charlotte, N. C.

EXHIBIT: Complete line of Loom Supplies, including Lug Straps, Check Straps and Loom Strapping, Pickers, Picker Sticks, Dobby Cords, and their "Tiger Paw" Anti-Vibration Pad Material.
IN ATTENDANCE: L. L. Froneberger, Jr., Ralph M. Briggs, Jr., Doyle Stansell, Frank W. Bever.

BURLINGTON INDUSTRIES, INC.
GREENSBORO, N. C.—(432-434)
with R. E. L. Holt Jr., & Associates

CAROLINA BELTING CO.
GREENVILLE, S. C.—(217)

CAROLINA RADIO SUPPLY CO., INC.
GREENVILLE, S. C.—(320)

CAROLINA SUPPLY CO.
GREENVILLE, S. C.—(230)

EXHIBIT: Booth to be used for reception only.
IN ATTENDANCE: H. W. Harrison, Claiborne Mardre, B. E. Elletson, J. O. Crawford, Jr., B. F. Verdin, L. J. Farrow, H. L. Stevenson, F. R. Casey.

CARRIER CORP.
SYRACUSE, N. Y.—(511)

EXHIBIT: Operating exhibit of their Rotaspray Weathermaker, a central air conditioning device for more accurate control of humidity and removing airborne contaminants.
IN ATTENDANCE: Ernest Hungate, Robert White, R. S. Fullerton.

CARTER, A. B., INC.
GASTONIA, N. C.—(108)

EXHIBIT: Boyce Weavers Knotter; Travelers; and Screw Machine Parts and Stampings.
IN ATTENDANCE: R. A. Haynes, W. L. Rankin, J. R. Richie, P. L. Piercy, D. E. Phillips, J. K. Davis, J. B. Carter, B. R. Link, E. Haines Gregg.

CEN-TENNIAL COTTON GIN CO.
COLUMBUS, GA.—(824-25)

EXHIBIT: Their Opener-Cleaner for opening, cleaning and blending of cotton in one operation; their Textile Separator for discharging Opener-Cleaner; Textile Aerator; Synthetics Opener-Blender; and Blending Feeder for cotton and synthetics.
IN ATTENDANCE: S. K. Dimon, J. E. Brown, Allen Harmon.

CHANDLER MACHINE CO.
AYER, MASS.—(359)

CHARLOTTE MFG. CO.
CHARLOTTE, N. C.—(120)

EXHIBIT: All types of Card Clothing, also several types of Flat Clothing.
IN ATTENDANCE: R. G. Spratt, Jr., C. A. Spratt, A. D. Ennis, Paul W. Scercy, R. P. Bullard, V. M. Whitley.

CLARK-CUTLER-McDERMOTT CO.
FRANKLIN, MASS.—(452)
with Yeomans Textile Machinery Co.

CLARK EQUIPMENT CO.
BATTLE CREEK, MICH.—(478-79)

EXHIBIT: Their new 2000 pound electric Clarklift. Also a gas Clarklift fork truck in the 3000, 4000 and 5000 pound capacities, one of which equipped with a Carton Clamp and another with a Cotton Boom.
IN ATTENDANCE: B. E. Phillips, J. W. Kelly, Glenn A. Christians, Frank Lyne.

CLEMSON TEXTILE SCHOOL
CLEMSON, S. C.—(127-A)

EXHIBIT: Sock Knitting Machine showing a design and a Hand Knitting Machine.
IN ATTENDANCE: H. Betts Wilson, J. C. Williams, F. J. Leard.

CLINTON CORN PROCESSING CO.
CLINTON, IOWA—(206)

EXHIBIT: No products. Reception Booth only.
IN ATTENDANCE: A. C. Junge, R. C. Rau, C. F. Cline, Boyce Estes, Glenn Henderson, E. F. Patterson, R. A. Conzett, J. A. Tomlin, Grady Gilbert.

COATS & CLARK, INC.
TRAVELLER DIVISION
NEWARK, N. J.—(221)

COCKER MACHINE & FOUNDRY CO.
GASTONIA, N. C.—(836-37)

EXHIBIT: Latest developments in high speed Slashing and Warping equipment, Cooking and Storage Kettles and Creels.

IN ATTENDANCE: John Cocker, III, John C. Bodansky, Don Shepherd, Hoyt Cunningham, Jim Etheredge, Frank Suggs, Orville Davis, John McCoig.

COLBY COOPERATIVE STARCH CO.
CARIBOU, MAINE—(501)
with Ira L. Griffin & Sons

COLEMAN CO., INC.
GREENVILLE, S. C.—(826-828)
Representing The Bouligny Co. and Yale & Town Mfg. Co.

COLLINS BROTHERS MACHINE CO.
PAWTUCKET, R. I.—(818-19)

EXHIBIT: Featuring a 16 spindle, 8 in. ring, 11 in. traverse Twister equipped with Stop Spindles and individual Feed Roll arrangements to prevent drop ply and roller laps.
IN ATTENDANCE: Henry Collins, Nelson Collins, Karl H. Inderfurth.

COLSON CORP., THE
ELYRIA, OHIO—(485) with Wrenn Brothers

CONTINENTAL-DIAMOND FIBRE CORP.
NEWARK, DEL.—(465-466)

EXHIBIT: Latest developments in industrial plastics for use in the textile industry, featuring new applications of its various laminated plastic products, such as bearings, gears, loom parts and material handling containers, such as trucks, boxes and roving cans.
IN ATTENDANCE: F. M. Grauer, C. L. Simmons, Jr., A. D. Gray, G. W. VonSeth, C. B. Haynes, R. Little, Jr., M. Blumenthal, O. R. Thomas.

COOK MACHINE CO., INC.
NASHUA, N. H.—(322)
Subsidiary of Riggs & Lombard

EXHIBIT: Photographs only.
IN ATTENDANCE: E. M. Cook.

CORN PRODUCTS SALES CO.
GREENVILLE, S. C.—(445)

EXHIBIT: Only booth space with attractive back-drop.
IN ATTENDANCE: A. N. McFarlane, A. A. Harden, Herman Baker, J. R. Hill, T. W. Blackwell, W. R. Joyner, H. L. Bailey, J. Alden Simpson, Earl G. King, Gordon E. Wood, J. M. Adcock, G. O. Greene.

COTTON-McCAULEY & CO., INC.
PAWTUCKET, R. I.—(833)

EXHIBIT: Spinning Frame equipped with the following products manufactured by Machinecraft, Inc., Whitman, Mass.: Cleanalign, Cleanguide, Easi-Creel, Flexing Changeover, Climax Ball Bearing Top Rolls, Cleandraft Top Rolls, and Sureweight Top Roll Weight Tester.

Knitting Machine displayed by Clemson Textile School.

In Attendance: Frank H. Cotton, Raymond L. McCauley, J. Bertram Howarth, Cecil A. McAbee, William L. Hinson, Lewis C. Burgin, Richard K. Butler.

CRABTREE TEXTILE ACCESSORIES, LTD.
COLNE, LANCASHIRE, ENGLAND—(321)

Exhibit: Sintox Alumina Thread Guides, Chrome Plated Thread Guides, Tension devices including new ceramic types, and nylon Flyer Blocks.
In Attendance: J. B. Ashworth.

CROMPTON & KNOWLES CORP.
WORCESTER, MASS.
CHARLOTTE, N. C.—(138-139A)

Exhibit: C-7 Automatic Cotton Dress Goods Loom; PAPA Loom, 82" b.s., 25 harness, 4x3 box, weaving a worsted fabric; Narrow Fabric Needle Loom; dye house cloth Truck by Carl N. Beetle Plastics Corp., their subsidiary.
In Attendance: F. W. Howe, Jr., Albert Palmer, J. F. Molloy, R. S. Schedin, John C. Irvin, Raymond A. Sharpe, Henry C. Wingard, Lewis Burgess, Vernon O. Holcomb, Carnice Treadway.

CROSS SALES & ENGINEERING CO.
GREENSBORO, N. C.—(349)

Exhibit: Working models of mechanical power transmission equipment of all types, including Flexible Couplings, Variable Speed Drives, Clutches and Gear Reducers.
In Attendance: William S. Cross, Harvey Forrest, Don Tise, Harvey Hipp.

CURTIS & MARBLE MACHINE CO.
WORCESTER, MASS.—(235-237)

Exhibit: 50" B-H Inspector in operation; portable Detacker and ONB-SC Tacking Head for woolen goods; 50" M-125 Cloth Folder; 64" VSS Selvage Trimmer; and 60" LCP-S Loop Clipper. Also Railway Sewing Machine, Brush, Shear and Raw Stock Blender at their plant on Laurens Road.
In Attendance: Walter E. Hildrick, Walter F. Woodward, Jack Federline, Jack Stanley.

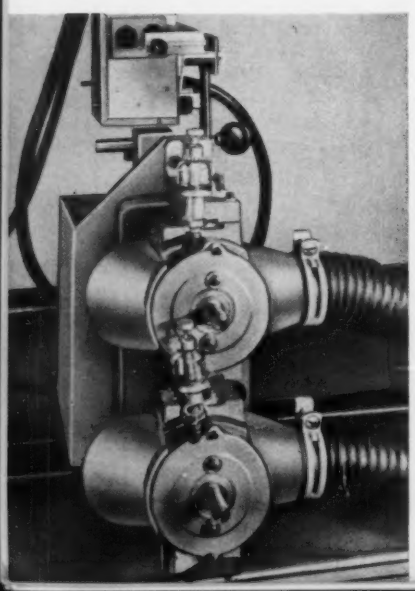
CUTLER-HAMMER, INC.
MILWAUKEE, WIS.—(460)

Exhibit: Standard electrical control apparatus for textile applications; featuring their new Ultraflex "E" and Ultraflex "M" packaged drive units.
In Attendance: B. R. Stratton, K. S. Vreeland, F. L. Sheram, C. C. Corey, C. D. Capelle, C. Q. Wiggins, D. S. Galbraith.

DAILY NEWS RECORD
NEW YORK, N. Y.—(210)

DARNELL CORP., LTD.
LONG BEACH, CALIF.—(212)
with Greenville Textile Supply Co.

DAVIDSON-KENNEDY CO.
ATLANTA, GA.—(102-A)



Curtis & Marble's
VSS Selvage Trimmer.

Exhibit: Their new Cleaner-Opener-Blender of the SRRL type.
In Attendance: A. T. Kennedy, Ernest Kontz, E. P. Withers.

DAVIS & FURBER MACHINE CO.
CHARLOTTE, N. C.—(480)

Exhibit: First showing of their new 24-roll double acting Napper; samples of card and napper clothing, tapes and aprons; machines making card and napper clothing in operation.
In Attendance: E. N. Atwood, A. W. Reynolds, J. W. Wagoner, W. M. Truslow, J. H. Canady, Louis Bussiere, Jim Mansfield.

DAYTON RUBBER CO., THE
DAYTON, OHIO—(135)

DENMAN TEXTILE RUBBER CO.
CUYAHOGA FALLS, OHIO—(818-819)
with Karl H. Inderfurth

Exhibit: Premium light colored Picker and Denman Pioneer Drop Box Reversible Picker; new plastic Loop Pickers; their complete line of rubber loom parts.
In Attendance: John Brown, Karl H. Inderfurth, Hayden C. Cobb, Jr.

DIEHL MFG. CO.
SOMERVILLE, N. J.—(475)

Exhibit: Complete line of textile Motors, also special loom power transmitters, spinning frame motors, brake motors and general purpose loom motors.
In Attendance: A. R. Booth, E. F. Graham, A. J. Murphy, C. B. Pickering, J. W. Wilson, J. McCall.

DINSMORE MFG. CO., THE
SALEM, MASS.—(234)
with Hollister-Moreland Co.

DIXIE BEARINGS, INC.
GREENVILLE, S. C.—(416-417)

DIXON CORP.
BRISTOL, R. I.—(817)

DODGE MFG. CORP.
MISHAWAKA, IND.—(802-03)

Exhibit: Their Flexidyne Dry Fluid Drives and Couplings, including Card Drive, Para-flex Flexible Cushion Couplings, Taper-Lock Sheaves; first showing of their new, improved Variable Pitch Sheave.
In Attendance: George H. Wooley, W. Reynolds Barker, Paul E. Keb.

DORRIS, GEO. P. CO.
ST. LOUIS, MO.—(106-A)
with Ira M. Valentine

DRAPER CORP.
SPARTANBURG, S. C.—(129-134)

Exhibit: A 50" high-speed X-2 Model Loom and an 82" XP-2 wide Sheeting Loom; Display of their Shuttles, Bobbins, Rings, Spindles, and Loom Accessories; a miniature loom operating at slow speeds will provides visitors with the opportunity to closely examine improved parts and mechanisms in operation.
In Attendance: Thomas H. West, William K. Child, Walter E. Soderberg, Joseph B. Jackson, James H. Grant, Albert A. Laferte, Joseph M. Budzyna, Edward Cranshaw, Richard Childs, Frederick M. Fitzgerald, L. Marshall Newell, C. E. Burnham.

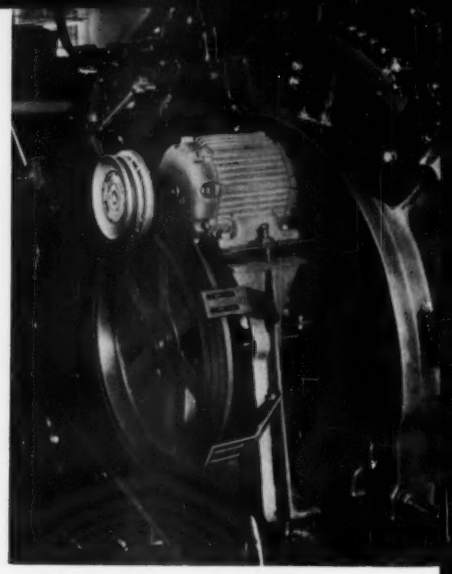
DRONSFIELD BROS., LTD.
OLDHAM, ENGLAND—(476)

ECLIPSE MACHINE DIV.
ELMIRA, N. Y.—(212)
with Greenville Textile Supply Co.

EDDA INTERNATIONAL CORP.
NEW YORK, N. Y.—(503)

Exhibit: Titan warp tying-in machines and Excelsior reed cleaning and polishing machine.
In Attendance: B. Gudjonsson, H. A. Nagel, H. H. Thacker, E. L. Pullen.

ENGINEERED PLASTICS, INC.
GIBSONVILLE, N. C.—(214)



Dodge's Flexidyne Individual Card Drive.

ERIEZ MFG. CO.
ERIE, PA.—(357)

EXACT WEIGHT SCALE CO.
COLUMBUS, OHIO—(208)

Exhibit: Their Basic Weight Classifier—a new aid for quality control in textile mills, also various models of their Scales.
In Attendance: J. M. Orta, B. L. Price, T. L. Brewer, J. W. Eakin, W. A. Scheurer, R. M. Rapp, W. J. Schieser.

EXCEL, INC.
LINCOLNTON, N. C.—(231)

Exhibit: Types of materials handling equipment, such as roving trucks, doff boxes, etc.
In Attendance: N. W. Eurey, Paul Eurey, E. E. Eurey, Julian Still.

EXTREMULTUS, INC.
NEW YORK, N. Y.—(272)

Exhibit: Belting of their manufacture.
In Attendance: George Pellicer, George Chapman, William Bundy.

FAFNIR BEARING CO.
NEW BRITAIN, CONN.—(247)

Exhibit: Ball Bearings and Ball Bearing Power Transmission Units.
In Attendance: H. C. King, C. A. Berg, N. B. Bagger, R. W. Parkinson, C. W. Jones, Jr., J. Porter Golden, J. V. Lansing, C. M. Thomas.

FAIRBANKS, MORSE & CO.
ATLANTA, GA.—(102)

FAULTLESS CASTER CORP.
EVANSVILLE, IND.—(470-B & 471)

Exhibit: New line of textile Casters, including grease-sealed Wheels and Swivel Bearing; new style deep-drawn Thread Guards; new machined faced semi-steel Wheels.
In Attendance: A. E. Lange, George T. McLeod, Thomas J. Bromeling.

FENWAL, INC.
ASHLAND, MASS.—(360)
with W. K. Hile Co.

Exhibit: Electric Temperature Controls and Multi-Point Monitoring Systems.
In Attendance: W. K. Hile, C. P. Maloney, Jr.

FIFE MFG. CO.
OKLAHOMA CITY, OKLA.—(308 & 309)

Exhibit: Demonstration of their automatic Cloth Guiding equipment wherein two types of guiding applications will be shown.
In Attendance: C. W. Brown, Forrest C. Ames, J. Fred Slaughter, Warren A. Schilling, R. W. Powers.

FINNELL SYSTEM, INC.
ELKHART, IND.—(110)

FISHER MFG. CO.
HARTWELL, GA.—(314-315)

FLETCHER WORKS
PHILADELPHIA, PA.—(807)

EXHIBIT: Production models of their High-Speed Doubler Down-Twister; their Duplex Jumbo Package Doubler Down-Twister; also their High-Speed Skein Reel.
IN ATTENDANCE: F. W. Warrington, Eldon Stowell, Edward T. Taws, Sr., and Edward Taws, Jr.

FOSTER MACHINE CO.
WESTFIELD, MASS.—(838-39)

EXHIBIT: Fully automatic Filling Bobbin Winder Model 66 and automatic Cone Winder Model 202.
IN ATTENDANCE: W. C. Chisholm, E. C. Connor, H. W. Ball, P. H. Farmer, S. A. Burke, F. F. Stange, C. A. Bullard, E. P. Dodge, C. W. Jedlicka, B. F. Hills, M. Hills, G. W. Mallory, E. H. Ely, H. E. Hornbuckle, C. O. Roberts, J. K. Salva.

FOULDS, I. & SONS, INC.
HUDSON, MASS.—(229)
with Wilson F. Hurley

FOXBORO CO., THE
FOXBORO, MASS.—(176)

EXHIBIT: New instruments for recording Cloth Stretch and extremely low Flow Rates of textile processing fluids to be shown for the first time. Brookfield Viscometron viscometer; Foxboro Dynalog Recorder; CycleLog Instruments; Relative Humidity Recorder and other instruments.
IN ATTENDANCE: W. H. Ridley, R. M. Glass, T. A. Jones, E. R. Tims, S. C. Alexander, F. H. Leathers, L. L. Hodges.

GARLAND MFG. CO.
SACO, ME.—(106)

EXHIBIT: Loom Pickers; Picker Rod Bunters; Picker Rod Lubricants; Loom Leathers, Checks, etc; also rawhide Mallets and rawhide faced Hammers and nylon faced Hammers.
IN ATTENDANCE: Frederick L. O'Neil, Sr., Frederick L. O'Neil, Jr., Harry P. Garland, Laurence S. Garland, Peter A. Garland.

GASTON COUNTY DYEING MACHINE CO.
STANLEY, N. C.—(846)

GATES RUBBER CO., THE
DENVER, COLORADO—(447)

EXHIBIT: Tex-Hide lug straps, loop pickers, harness strapping, check straps, roll covering, V-belts, card bands, cone and evener belts and industrial air hose.
IN ATTENDANCE: T. F. McCormish, R. O. Denslow, R. H. Lord, J. R. Luzader, R. L. Waldrop, F. R. Carson, H. W. Haynes, W. H. Hunter.

GAULT, P. C., CO.
GREENVILLE, S. C.—(354)

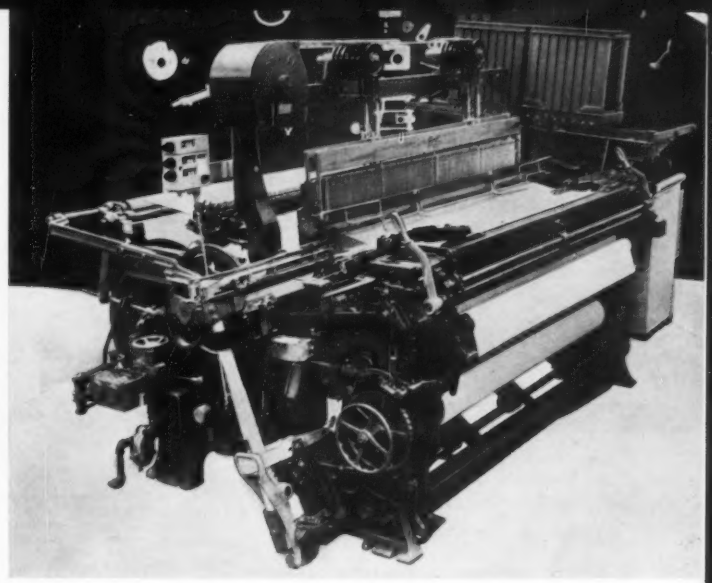
EXHIBIT: Automatic Dial Telephone Systems; Industrial sound; and music, paging and locating systems for industrial plant.
IN ATTENDANCE: P. C. Gault, J. E. Marshall, C. A. Butler, Jack Meyers, Robert Cooper.

GENERAL BOX CO.
MERIDIAN, MISS.—(324)

GENERAL ELECTRIC CO.—
APPARATUS DIV.
SCHENECTADY, N. Y.—(116)

GENERAL ELECTRIC CO.—
LARGE LAMP DEPT.
CLEVELAND, OHIO—(116)

EXHIBIT: Series of lighted panels demonstrating Power-Groove Fluorescent, high-bay Incandescent Reflector, and PAR Spot and Flood Lamps.
IN ATTENDANCE: Russell B. Chipman, Glenn E. Park, Leonard J. Campbell, Dean N. Jenks, E. A. Brown, I. S. Meckly.



Draper's 50" High-Speed X-2 Model Loom.

GENERAL ENTERPRISES, INC.
GREENVILLE, S. C.—(322)

GEORGIA-CAROLINA OIL CO.
MACON, GA.—(337-338)

GESSNER, DAVID CO.
WORCESTER, MASS.—(483)

GIFU KEIKI CO.
JAPAN—(245-246) with Edward S. Rudnick

EXHIBIT: Their automatic Picker Lap Scale.

GILMAN PAINT & VARNISH CO.
CHATTANOOGA, TENN.—(450)
also Olney Paint Co.

GLOVER WOOD TURNING CO., INC.
WEST MILLBURY, MASS.—(432-434)
with R. E. L. Hoyt, Jr.

GODO SHUTTLE CO.
OSAKA, JAPAN—(245-246)
with Edward S. Rudnick

EXHIBIT: Various plain and fiber-glad Shuttles of specially treated and impregnated woods; also samples of shuttle-eyes and bobbin holders.

GOLDENS' FOUNDRY & MACHINE CO.
COLUMBUS, GA.—(268)

GOSSETT MACHINE WORKS, INC.
GASTONIA, N. C.—(233)

GOULSTON, GEO. A., CO.
CHARLOTTE, N. C.—(331)

EXHIBIT: General display of their line of fiber Lubricants which are used in the preparation of stock for carding, spinning and finishing.
IN ATTENDANCE: George A. Goulston, Ben Goulston, Arnold Goulston, Harold Miller.

GOWER MFG. CO.
GREENVILLE, S. C.—(506)

EXHIBIT: Cloth Storage Racks and model Conveyor System.
IN ATTENDANCE: Paul C. Aughtry, R. Hunter Park.

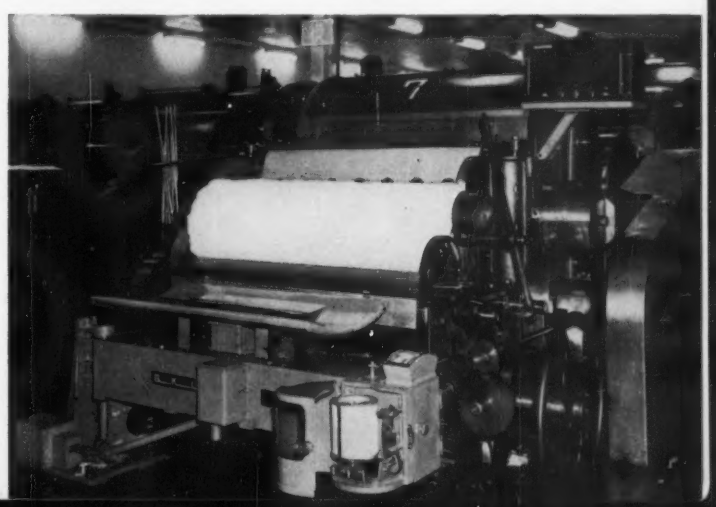
GRATON & KNIGHT CO., INC.
WORCESTER, MASS.—(507)

GREENVILLE TEXTILE SUPPLY CO.
GREENVILLE, S. C.—(212)
Representing American Pulley Co., Bowen Hunter Bobbin Co., Darnell Corp., Eclipse Machine Div. of Bendix Aviation Corp., W. T. Lane Brothers, Inc., and Sunray Co. (See under individual firms)

GRIFFIN, IRA L. & SONS
CHARLOTTE, N. C.—(501)
Representing Atlantic Gelatin Div. of General Foods, Bachman Uxbridge Worsteds Corp., Colby Cooperative Starch Co., and Hubinger Co. (See under individual firms)

GULF OIL CORP.
PITTSBURGH, PA.—(221)

EXHIBIT: Gulfspin spindle oil and Gulfcrown Grease E.P. a new lithium base, heavy-duty grease for extreme pressure applications. There will also be a prize box at the booth.



Gifu Keiki's Automatic Picker Lap Scale.

James Hunter's new Time Delay Monitor.

In Attendance: J. H. Hooten, H. N. Hill, A. M. Wright, J. E. Coleman, H. B. Minick, Jr., C. L. Thomas, Jr., S. E. Owen, Jr., C. T. Timmons.

HARTFORD MACHINE SCREW CO.
GREENVILLE, S. C.—(453)

Exhibit: Spinning frame with their new Ball Bearing Filling Spindles; ball bearing Spindles for warp, filling, twisting, and rubber covering; also Hartford Bobbin Holders.
In Attendance: A. R. Andrews, N. D. Kennedy, A. M. Newall, W. G. Snowdon, J. L. Howard.

HATCHER SALES CO., INC.
ATLANTA, GA.—(365)

Exhibit: Stanley Magic Door Controls.
In Attendance: F. M. Hatcher, J. T. Cobb.

HAWTHORNE, DONALD
ANDERSON, S. C.—(274)
Representing Lundia Div. of Swain & Myers, Inc., Decatur, Ill. and Anderson Printing Co., Anderson, S. C.

HAYES INDUSTRIES, INC.
JACKSON, MICH.—(435-36)

Exhibit: Their 38" dynamically balanced Section Beam for cotton, also first showing of their 30x42" Tricot Beam made for the latest type knitting machines.
In Attendance: William H. Maxson, Richard D. Richard, Warren D. Sharp.

HEANY INDUSTRIAL CERAMICS CORP.
NEW HAVEN, CONN.—(121)

Exhibit: Heanium Thread Guides and Tension Devices.
In Attendance: A. O. Pieper.

HERR MFG. CO.
BUFFALO, N. Y.—(267)

Exhibit: First showing of their newly designed "M" Type Conical Ring featuring seam lubrication; also complete line of their Flyers for uptwisters.
In Attendance: Hyatt B. Atwood, William W. Woodard, Robert M. Leach, James McLean, William K. Anderson, Jr.

HILE, W. K. CO.
CHARLOTTE, N. C.—(360)

Exhibit: Products of Fenwall, Inc. and Hotwatt, Inc. whom they represent. (see under individual firms)
In Attendance: W. K. Hile, C. P. Maloney, Jr.

HILLYARD CHEMICAL CO.
ST. JOSEPH, MO.—(305-06)

Exhibit: Floor Seals and Finishes and other floor and building maintenance products and equipment.
In Attendance: William A. Schmaltz.

HOLLISTER-MORELAND CO., INC.
SPARTANBURG, S. C.—(234)
Representing American Safety Table Co., Dinsmore Mfg. Co., and Merrow Machine Co. (See under individual firms)

HOLT, R. E. L., JR. & ASSOCIATES
GREENSBORO, N. C.—(432-434)
Representing Akron Spool Mfg. Co., Burlington Industries, Inc., Glover Wood Turning Co., Mitchell-Bissell, Norris Bros., Rice Dobby Chain Co., B. Snowiss Fur Co., and Tontex Corp. (See under individual firms)

HOTWATT, INC.
DANVERS, MASS.—(306)

Exhibit: Line of stainless sheathed cartridge Heating Elements and ceramic-bodied unit.
In Attendance: W. K. Hile.

HOWARD BROTHERS MFG. CO.
WORCESTER, MASS.—(252-253)

Exhibit: Card Clothing for woolen, worsted, cotton asbestos, and silk cards. Napper clothing, brush clothing. Hand stripping cards. Hand sampling cards.
In Attendance: E. Jack Lawrence, T. J. Jackson, H. Harold Suggs, Forrest J. Campbell, Warren W. Butterworth, Dederick A. Spencer, Harry C. Coley, Neal A. Mitchell, Charles A. Haynes.

HUBINGER CO.
KEOKUK, IOWA.—(501)

Exhibit: Samples of their various textile Starches.
In Attendance: G. R. Underwood, J. R. Myers, John Harness, Ira L. Griffin, Ira L. Griffin, Jr., William A. Griffin, Garvis Orr.

HUNTER, JAS. INC.
GREENVILLE, S. C.—(474)

Exhibit: Fiber Meter Blending System for cotton and synthetics, also with new automatic mixing chamber; hydraulic checkmaster and parallel motion for looms; bobbin holders; automatic weighing picker and card feeds; Mathews and Richards-Wilcox conveyor systems; Agastat pneumatic timing controls; Fuller tint pumps; and Thomas Leyland expander bars and flex spools. Also their new Time Delay Monitor Device.
In Attendance: A. V. Moody, J. C. Whitehurst, J. T. White, H. A. Brown, Jr., W. B. Estes, D. B. Powers.

HURLEY, WILSON F.
GREENVILLE, S. C.—(229)
Representing Bancroft Belting Co., Foulds, I. & Sons, Inc., M. B. Products, and M. H. Parks Co. (See under individual firms)

HYATT BEARINGS DIV.
HARRISON, N. J.—(104)

Exhibit: Complete line of bearings for textile applications.
In Attendance: E. P. O'Neill, C. C. Wardell, E. Maurushat, G. Baxley, G. A. Straus.

HYSTER CO.
DANVILLE, ILL.—(485) with Wrenn Bros.

IDEAL INDUSTRIES, INC.
IDEAL MACHINE SHOPS, INC.
BESSEMER CITY, N. C.—(239-240)

INDERFURTH, KARL H. CO.
CHARLOTTE, N. C.—(818-819)
Representing Collins Bros. Machine Co., Denman Textile Rubber Co., and Metlon Corp. (See under individual firms)

INDUSTRIAL COATINGS, INC.
GREENVILLE, S. C.—(291)

Exhibit: Graphic display of Teflon coated items; PVC coated tank; miscellaneous parts used in industry coated with Teflon, Vinyl, or baked Enamel.
In Attendance: H. E. Russell.

INDUSTRIAL DRYER CORP.
STAMFORD, CONN.—
(469 & 470-A & Annex 7)

Exhibit: H-W Conditioner, arranged to automatically pre-heat, condition, dry or exhaust for twist setting, shrinking, lofting, and regain.
In Attendance: F. W. Caesar, Philip H. Friend.

INTERNATIONAL BUSINESS MACHINES CORP.
NEW YORK, N. Y.—(464)

INTERNATIONAL CORRESPONDENCE SCHOOLS
SCRANTON, PA.—(336)

Exhibit: Illuminated map of the U.S. showing name and location of many firms which have special training arrangements with I.C.S. Also I.C.S. texts—most of them for Textile Courses—for Leadership Courses and Management Training, Catalogs and Booklets.
In Attendance: Raymond C. Gagnon, U. E. Akins, W. F. Eckard, W. R. Craig, Geo. E. McClenaghan, A. D. Livingston, W. M. Watkins, C. C. Rearden.

IZUMI BOBBIN CO.
OSAKA, JAPAN—(245-246)
with Edward S. Rudnick

Exhibit: Samples of various bobbins and filling quills with "Japanned" enamel finish; also first display in U.S. of new Japanese paper tubes for spinning.

JENKINS BROS.
NEW YORK, N. Y.—(457-458)

JOHNSON CORP., THE
THREE RIVERS, MICH.—(441-42)

Exhibit: Complete lines of their various types of Rotary Pressure Joints, Solenoid Operated Valves, Instant Steam Water Heater, and Compressed Air Separators and Aftercoolers.
In Attendance: Ralph W. Gotschall, Jim Dal Ponte, T. H. Abbey, Sr., T. H. Abbey, Jr., William B. Abbey, Bill Lee, Howard Duvall, Jr., John Marshall, Joe Davis, Ross Dickey.

KEEVER STARCH CO., THE
GREENVILLE, S. C.—(407)

Exhibit: No product display.
In Attendance: James F. Kurtz, A. S. Fulford, Charles C. Switzer, F. M. Wallace, R. F. Guill, C. B. Phillips, S. S. Rice, T. S. Richbourg, R. L. High.

KENYON, WM. & SONS, INC.
PERTH AMBOY, N. J.—(326)

Exhibit: Kennylbond nylon Tapes for spinning and twister frames; their Tape Bonding machine; and their new Kenbrake, a new method and device of stopping a spindle while the tape continues to run at the same speed.
In Attendance: W. A. Kenyon, O. E. Butcher.

KEYSTONE LUBRICATING CO.
PHILADELPHIA, PA.—(402)

Exhibit: Demonstration of loom gear grease application with special portable lubricant; also RT Fitting for motor and pillow block bearings, and various types Lubricants, Oils and Greases.
In Attendance: W. F. Boger, W. E. Wood, R. M. Goss, N. W. Benjamin.

KIDDE TEXTILE MACHINERY CORP.
BLOOMFIELD, N. J.—(516)

Exhibit: Combination Tricot Warper for any of the following spools: 1—50" or 1—42" or 2—21" or 2—25"; also compensating Tension devices and instruments.
In Attendance: W. J. Behr, Jr., H. W. Ruddick, O. C. Biegel, E. L. Herbert, J. H. Fleming, A. W. Post.

KINNEAR, L. W. & CO.
CHARLOTTE, N. C.—(318)

Exhibit: Pneumatic products of C. A. Norgren Co. of Englewood, Col., including Air Line Filters, Pressure Regulators, Lubricators, Micro-Fog Bearing Lubrication. Air Valves of Valvair Corp., Akron, Ohio. Air Motors, Compressors and Vacuum Pumps of Gast Mfg. Corp., Benton Harbor, Mich.
In Attendance: L. W. Kinnear, J. P. Majette.

KIRKMAN & DIXON MACHINERY CO.
GREENWOOD, S. C.—(201)

Exhibit: Laboratory model of their Waste Machine and new SRRL Opener-Cleaner.
In Attendance: W. J. Langley, C. M. Dixon.

LAMBETH ROPE CORP.
KINGS MOUNTAIN, N. C.—(222)

LANE, W. T. BROS., INC.
POUGHKEEPSIE, N. Y.—(212)
with Greenville Textile Supply

LENKOTEX COMPANY, INC.
NEW YORK, N. Y.—(118)

EXHIBIT: Spintex "Universal" Roller Bearing Spindles; Mann Rings for spinning and twisting; Saccardo Paper Tubes; Harnisch Loom Temples with Perlon bushings and flanges; Lucke Pin Setting Macines; and SSS Comb and Gill Pins.
IN ATTENDANCE: V. Lindner.

LINCOLN ENGINEERING CO.
ST. LOUIS, MO.—(510)

LINDLY & CO., INC.
MINEOLA, L. I., N. Y.—(813)

EXHIBIT: Complete small scale Creel and Warper set-up to show their quality control equipment in operation including their Electrotense tension device, Automatic Yarn Inspector, and Automatic End Break Detector; Photo-Scanner for knitting machine; Automatic Spun Yarn Inspector; and Lind-Recorder.
IN ATTENDANCE: H. C. Lindemann, V. Mateyka, D. Mindheim, C. Elgin.

LIVERMORE, H. F. CORP.
BOSTON, MASS.—(109-A)

LIVINGSTON & HAVEN, INC.
CHARLESTON, S. C.—(366)
with Westinghouse Air Brake Co.
Wilmerding, Pa.

EXHIBIT: Long Pneumatic Lap Control System; Oil-Dyne Hydraulic System; pneumatic Cylinders, Valves and other controls for automation and control of machinery.
IN ATTENDANCE: A. C. Flint, J. E. Moorefield, M. D. Haven, W. V. Walkinshaw, R. F. Hanley.

LIVINGSTON COATING CORP.
CHARLOTTE, N. C.—(311-312)

EXHIBIT: Various types of Coatings; typical pieces of equipment which have been coated, such as blower wheels, fume exhaust fans, duct work, etc.
IN ATTENDANCE: Stan Livingstone, Albert B. Small.

LOCKWOOD GREENE ENGINEERS, INC.
SPARTANBURG, S. C.—(207)

LOUDEN MACHINERY CO.
FAIRFIELD, IOWA—(477)

EXHIBIT: Ceiling Cleaners, Monorail Systems and Monorail Crane Systems.
IN ATTENDANCE: John T. Fulwiler, Jr., E. R. Zane, Jr., Hugh Black, Ralph Berry, O. M. Jones, H. M. Sawrie.

LUREX YARN DIV., THE DOBECKMUN CO.
A DIVISION OF THE DOW CHEMICAL CO.
WILLIAMSBURG, VA.—(241-242-A)

M. B. PRODUCTS
DETROIT, MICH.—(229)
with Wilson F. Hurley

MACBETH CORP.
NEWBURGH, N. Y.—(113)

EXHIBIT: Daylight color matching lamps; Examolite shading and perching lamps; color in matching instruments.
IN ATTENDANCE: Robert E. Meeker, E. F. Slaughter.

MARCHANT CALCULATORS, INC.
GREENVILLE, S. C.—(347-48)

EXHIBIT: Calculators and Adding Machines.
IN ATTENDANCE: R. B. Pollock, A. T. Davis.

MARQUETTE DIV.
CURTIS-WRIGHT CORP.
CLEVELAND, OHIO—(264)

MARSH STENCIL MACHINE CO.
BELLEVILLE, ILL.—(355)

MARSHALL & WILLIAMS
SOUTHERN CORP.
GREENVILLE, S. C.—(249-50-51)

EXHIBIT: New type of Winder; light duty Tenter Frame; Tenter Clips including a new model; also range of Drive units in all sizes from 5 hp to 100 hp.
IN ATTENDANCE: Richmond Viall, John C. Nash, Fred H. Land, James A. Love, Albert J. Marshall, Edward E. Ford, William C. Brown, Fred Hyatt.

MASTER ELECTRIC CO.
DAYTON, OHIO—(144-145
with Reliance Electric & Eng. Co.

McDONOUGH POWER EQUIPMENT INC.
McDONOUGH, GA.—(327-328)

MEADOWS MFG. CO.
ATLANTA, GA.—(136)

EXHIBIT: Extremely large Packages; high-speed anti-friction Twister Frames; anti-friction Spindles; Twister accessories; and Spinning accessories.
IN ATTENDANCE: E. D. Meadows, J. C. Martin, J. R. Caldwell, A. F. Gandy, W. S. Coleman, G. P. Stanley, B. J. Wright.

MERROW MACHINE CO.
HARTFORD, CONN.—(234)
with Hollister-Moreland

METLON CORP.
NEW YORK, N. Y.—(818-819)

EXHIBIT: Various types of metallic yarns including their new Metlon-F Mylar Ultra-Vat; fabrics using Metlon's complete range of yarns.
IN ATTENDANCE: Arthur Brucks, Hayden C. Cobb, Jr., Karl H. Inderfurth.

MINNESOTA PAINTS, INC.
ATLANTA, GA.—(325)

EXHIBIT: Fume-proof, acid- and chemical-resisting Mill White and Tints; machinery Enamels for use in bleachery, dye and finishing plants; Floor seals and finishes; interior and exterior mill maintenance finishes.
IN ATTENDANCE: William C. Blount, Carl S. Morgan, Don D. Wyatt.

MITCHELL-BISSELL CO.
TRENTON, N. J.—(434)
with R. E. L. Holt, Jr. & Associates

EXHIBIT: Complete line of Thread Guides manufactured of porcelain, Textalox, B80 or #54 composition; chromium plated Guide Wires; enameled Wire Guides; Shuttle Eyes and other Accessories.
IN ATTENDANCE: J. R. Mitchell, W. F. Fuetterer.

MITCHAM & CO.
GASTONIA, N. C.—(270)

MODERN OFFICE MACHINES
GREENVILLE, S. C.—(271)

EXHIBIT: Thermofax Copying Machines, manufactured by Minnesota Mining & Mfg. Co.
IN ATTENDANCE: Lloyd Auten, Ruth Parkington, Dell Owens, Carl Jones, Glenn Stevenson.

MODERN TEXTILES MAGAZINE
NEW YORK, N. Y.—(119)

IN ATTENDANCE: A. H. McCollough.

MOFFATT BEARINGS CO.
PHILADELPHIA, PA.—(265)

EXHIBIT: Complete assortment of anti-friction Bearings and special mounted units.
IN ATTENDANCE: O. S. Livingston, D. G. Hornbaker, H. W. McCard, Ralph Milford, Benjamin Ivey, Jos. Blackwell, W. B. Osborne, S. D. Zeanah, A. Q. Davis.

MONA INDUSTRIES, INC.
PATERSON, N. J.—(514)

EXHIBIT: Their Monalit-Duplex Yarn Conditioning Machine and Monarc Yarn Conditioning attachment for Abbott Automatic Quillers.
IN ATTENDANCE: R. H. Sommer, R. W. Bailey, D. C. O'Hair, Charles G. Stover.

MONROE CALCULATING MACHINE CO.
ORANGE, N. J.—(343-345)

MORTON SALT CO.
CHICAGO, ILL.—(512)

EXHIBIT: Four types of Salt, e.g. Kleer P.C.B., Chemical Grade "999"; Purex; and Kleer Coarse Rock Salt.
IN ATTENDANCE: B. L. Cirbb, J. M. Culp, A. C. Dewey, A. C. Frick, J. Mullinex, J. B. Neill, E. R. Ravenel.

MOUNT HOPE MACHINERY CO.
TAUNTON, MASS.—(114)

EXHIBIT: Their new Skew Liner automatic weft straightener; Floating Roll Guide; and automatic Web Tension Control "Flyer".
IN ATTENDANCE: J. D. Robertson, J. D. Robertson, Jr., W. M. Gallahue, S. A. Moffitt, Alex Spears, Jr., E. F. Slaughter, P. H. Slaughter, Wright Macomson.

MULLER, FRANZ CO.
M. GLADBACH, GERMANY—(847, Annex 6)
Represented by Parrott & Ballentine, Greenville, S. C.

EXHIBIT: High-speed 36-Roller Double-Action Tri-Napper; precision Shearing Machine; new Cloth Pressing Machine; and Bitroma Winder.
IN ATTENDANCE: K. A. Muller, August Hoverath, P. M. Parrott, J. M. Ballentine, S. H. Huffstetler.

MURPHY, T. J. FUR CO.
LEWISTON, MAINE—(220)
with Batson Mfg. Co.

NATIONAL CARBON CO.
DIV. UNION CARBIDE & CARBON CO.
ATLANTA, GA.—(339)

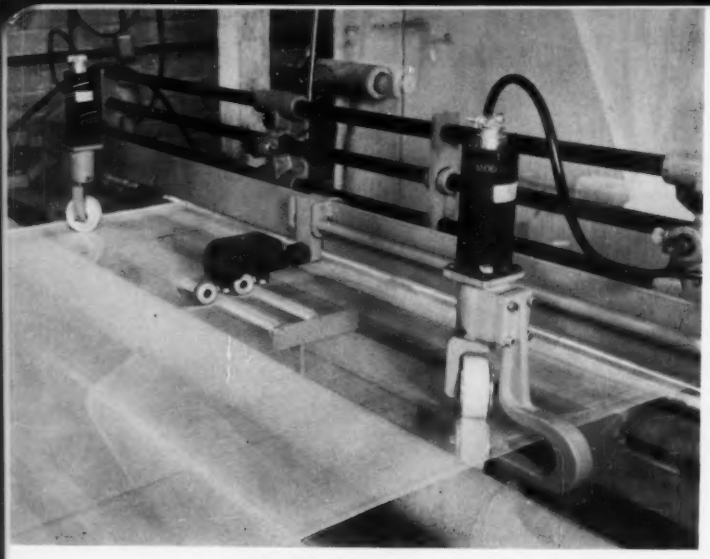
NATIONAL RING TRAVELER CO.
PAWTUCKET, R. I.—(213)

EXHIBIT: Ring Travelers.
IN ATTENDANCE: F. L. Chase, Jr., L. E. Taylor, H. B. Askew, T. H. Ballard, F. S. Beachem.

NATIONAL STARCH PRODUCTS, INC.
NEW YORK, N. Y.—(459)

EXHIBIT: Three types of Starches, e.g. "Cato", "Kofilm", and "Nu-Film".

Mona Industries' Monalit-Duplex Yarn Conditioner.



Mt. Hope's Automatic Skew Liner running transparent cloth.

In Attendance: J. F. Fitzgerald, L. J. Horan, H. C. Olsen, H. M. Smith, D. Ray Lassiter, C. A. Dyer.

NATIONAL VULCANIZED FIBRE CO.
WILMINGTON, DEL.—(429)

Exhibit: Complete line of Materials Handling Equipment including Roving Cans, Doffing Trucks, E-5 with round corners, Floating bottom Truck, mill Boxes and Nesting & Stacking Trays.
In Attendance: E. B. Burnley, R. S. Fisher, J. C. Davis, P. D. Heppe.

NEMO INDUSTRIES INC.
ATLANTA, GA.—(334)

NEW ENGLAND PAPER TUBE CO.
PAWTUCKET, R. I.—(128)
with Watson & Desmond

N. Y. & N. J. LUBRICANT CO.
NEW YORK, N. Y.—(109)

Exhibit: Non-Fluid Oil, featuring latest, improved types and grades for lubrication of every type of textile machine.
In Attendance: Jos. H. Bennis, I. L. Hall L. W. Thomason, Jr., R. F. Bagwell, A. M. Cowan, F. W. Phillips, J. A. Sorrells, Jr., F. W. Winecoff, E. J. Wood.

NIPPON SPINDLE MFG. CO.
OSAKA, JAPAN—(245-246)
with Ed. S. Rudnick

Exhibit: New "S" type roller bearing Spindle; spinning and twister Rings; Top Rollers for drawing, roving and spinning frames; complete "Pneumaniez" suction Cleaning system for spinning frames.

NIPPON CARD CLOTHING CO.
JAPAN—(245-246) with Ed. S. Rudnick

Exhibit: Samples of various types of Card Clothing and Foundations, including new anti-tarnish wire; new Pig Tails in adjustable lappets.

NOBLE, ROY CO.
NEW BEDFORD, MASS.—(220)
with Batson Mfg. Co.

NORGREN, C. A. CO.
ENGLEWOOD, COLO.—(318)
with L. W. Kinnear Co.

NORRIS BROS.
GREENVILLE, S. C.—(432-434)
with R. E. L. Holt, Jr. & Associates

O. M. SPINNING MACHINE MFG. CO. LTD.
OSAKA, JAPAN—(245-246)
with Ed. S. Rudnick

Exhibit: Their OM-S Sliver-to-Yarn Spinning Frame; their new O-M Drawing Frame; also their OM-S Demonstration Roller Stand.

OLNEY PAINT CO.
SPARTANBURG, S. C.—(450)
with Gilman Paint & Varnish Co.

ORAMA ENGINEERING CO.—
DIV. H. F. LIVERMORE CORP.
BOSTON, MASS.

ORE-LUBE CO., THE
NEW YORK, N. Y.—(337)

Exhibit: Ore-Lube Grease and Oils (with Molybdenum disulfide in suspension).
In Attendance: H. P. Brigham, Glen Davis, Charles G. Ninkle, Irving S. Bull, Jr.

OSTER MFG. CO., THE
CLEVELAND, OHIO—(364)

Exhibit: Pipe and Bolt Threading Machines and Equipment; also their Oster "100" Power Drive.
In Attendance: J. E. Javehan, H. E. Robb.

PADDOCK, J. C. CO.
SPARTANBURG, S. C.—(431 & Annex 1)

Exhibit: Textile Materials Handling equipment such as Doff, Roving and Spring Bottom Trucks, Fiber Doff Boxes and Quill Cans.
In Attendance: Sam E. Mabry, L. E. Corn, M. K. Firesheets.

PARKS-CRAMER CO.
FITCHBURG, MASS.—(502)

Exhibit: Certified Climate humidification and air conditioning; Traveler Cleaners; Vacuum End Collection; Vacuum Lint Removal; and Creels for spinning frames.
In Attendance: W. J. Buck, J. F. Crooks, Glenn Farthing, Maynard Ford, W. B. Granger, J. R. Henderson, W. W. Hewitt, G. F. Kellogg, J. C. Kelly, C. D. Lee, Jr., John Nesmith, L. R. Sibley, W. B. Walker, C. E. Ware, Jr.

PARKS, M. H. CO.
WINCHENDON, MASS.—(229)
with Wilson F. Hurley

PARKS & WOOLSON MACHINE CO.
SPRINGFIELD, VERMONT—(322)
with Riggs & Lombard

Exhibit: Photographs only.
In Attendance: Mr. Hadley.

PAWTUCKET SPINNING RING CO.
DIV. SACO-LOWELL SHOPS
PAWTUCKET, R. I.—(835)
with Saco-Lowell Shops

PENICK & FORD LTD. INC.
CEDAR RAPIDS, IOWA—(455-456)

PENNELL, GEO. H. CO.
GREENVILLE, S. C.—(110-B)

Exhibit: "Truco" Diamond Drilling equipment and "Ramset" Fastening System.
In Attendance: Geo. H. Pennell, Charles L. Garrett, J. W. Parsons.

PERFECTING SERVICE CO.
CHARLOTTE, N. C.—(409)

PERMACEL-LEPAGES, INC.
NEW BRUNSWICK, N. J.—(303)

Exhibit: Their Slasher Tape, also new line of their industrial Adhesives including Liquid Glue; complete line of their pressure-sensitive Tapes.
In Attendance: G. A. Fitzgerald, J. S. De Noia, J. W. Hagaman, Hale Dant.

PEROLIN COMPANY, INC.
NEW YORK, N. Y.—(361)

Exhibit: "Formet" Water System Treatment #321 Crystals and Perolin Fuel Oil Treatment.
In Attendance: Henry R. Strong, Bert V. Tiblin, Ken C. Gilmore.

PICK MFG. CO.
WEST BEND, WIS.—(310)

PLUTTE, KOECKE & CO.
WUPPERTHAL-BARMEN,
WEST GERMANY—(482)
Represented by Atkinson, Haserick & Co.

PNEUMAFIL CORP.
CHARLOTTE, N. C.—(808-809)

Exhibit: The all new Pneumafil C-12 Collector unit; their individual frame motor enclosure Pneumakool to remove excessive heat from motor alley; Pneumastop with new Electrofil; and other new developments in the field of vacuum collection.
In Attendance: C. R. Harris, J. Walter Barr, Marion E. Herndon, George E. Archer, Edward J. Williams, David J. Thorp, and William W. Lloyd.

POE HARDWARE & SUPPLY CO.
GREENVILLE, S. C.—(143)

Exhibit: Rust-Oleum rust preventive; Brown & Sharpe precision tools; and Boston Woven Hose & Rubber Co. hose, belts, aprons and tape.
In Attendance: Crawford Poe, Carter Poe, W. T. Henderson, Jr., J. J. Swan, J. T. Hardy, Bruce Loring, Robert Ferguson, Stan Clifford.

POWERS REGULATOR CO.
SKOKIE, ILL.—(356)

Exhibit: Liquid Level Control—Powers "Bubbler System"; Static Pressure Regulator; Indicating Temperature Control; Diaphragm Control Valves.
In Attendance: Robert W. Clark, Earl R. Bowman, Bill L. Arbuckle, Churchill Carter, J. Slattery, B. Vehorn.

PRECISION GEAR & MACHINE CO.
CHARLOTTE, N. C.—(410)

PROCTOR & SCHWARTZ, INC.
PHILADELPHIA, PA.—(262)

Exhibit: Photographs will be displayed and information available on their new #729 Blending Feed, also on the following new machines, manufactured in the United States: Combination Pin and Clip Tenter—Dalglish-Artos design, high-capacity Artos type Tenter Housing, Artos type Tensioniess Float Dryer, Artos type Print Goods Dryer, and revolutionary Curing Machine permitting very low curing temperatures.
In Attendance: C. W. Schwartz, W. H. Poole, T. A. Mahan, J. P. Christ.

PROGRESSIVE ENGINEERING INC.
ROCKLAND, MASS.—(128)
with Watson & Desmond

Exhibit: Anti-friction top rolls for spinning and roving; Roll maintenance equipment; Nylon cradles; and Drafting system.

PURE OIL CO., THE
CHARLOTTE, N. C.—(105)

PURITAN CHEMICAL CO.
ATLANTA, GA.—(446)

EXHIBIT: Their Advance Convertamatic—Wet-Dry Scrubber Vacuum, also miscellaneous sanitary maintenance items.
IN ATTENDANCE: Charles E. Braun, Ted V. Fisher, Ed P. Collins, B. C. Inabinet, H. P. Hartley, H. S. Collinson, J. E. Hulsey, A. D. Foster, C. B. Shugart, B. B. Wright, H. M. Boniske.

RICE DOBBY CHAIN CO.
MILLBURY, MASS.—(432-434)
with R. E. L. Holt, Jr. & Assoc.

RAMSET FASTENING SYSTEM
CLEVELAND, OHIO—(110-B)
with Geo. H. Pennell Co.

RAMSEY CHAIN CO.
ALBANY, N. Y.—(106-A)
with Ira M. Valentine

REEVES PULLEY CO.
COLUMBUS, IND.—(144-145)
with Reliance Electric & Engineering Co.

REINER, ROBERT, INC.
WEEHAWKEN, N. J.—(845)

EXHIBIT: No machinery display. Scale model only. Information service on all machines manufactured or represented by them.
IN ATTENDANCE: Walter Horn, H. D. Scheube.

RELIANCE ELECTRIC & ENGINEERING CO.
CLEVELAND, OHIO—(144-145)

EXHIBIT: Variable Speed Drives, including a completely redesigned V*S Drive; also equipment of Reeves Pulley Co. and Master Electric Co.
IN ATTENDANCE: C. Van Buskirk, R. G. Wilson, W. H. Chambers, V. R. Murphy, C. E. Robinson, J. B. Thomas, J. P. Reeves, E. G. Orahood, A. J. Stockslager, J. G. King, E. R. Campbell, T. C. Feathers, R. T. Willard, D. H. Gordon, F. W. Leitner, L. E. Blackwell, A. W. Fairer, M. R. Snyder, J. L. Highsmith, C. D. Wright, B. E. Tharpe, and P. J. McCausland.

REYNOLDS METALS CO.
RICHMOND, VA.—(484)

EXHIBIT: Complete Reymet line of metallic yarns including sample fabrics; samples and finished apparel using Reymet staple; samples of aluminum fabricated Pastes that are used in the textile industry.
IN ATTENDANCE: R. F. Lewis, Frank Hart, Tom Manning, S. R. McCauley and Tom Kirby.

RIDGE TOOL CO., THE
ELYRIA, OHIO—(439-40 & Annex 1)

EXHIBIT: They will introduce four brand new RIDGID Pipe Tools, e.g. Cutter, Chain Vise, Threader, and Hex Wrench, in addition to showing their complete line of RIDGID tools.
IN ATTENDANCE: R. Fye, R. Hamlin, F. Ronan.

RIGGS & LOMBARD, INC.
LOWELL, MASS.—(332)

EXHIBIT: No equipment, but the complete array of finishing machinery available from them, their subsidiary Cook Machine Co. and their Parks & Woolsen Division will be shown in photos and descriptive literature will be available.
IN ATTENDANCE: E. F. Hayes, J. W. Malloy.

ROBERTS CO.
SANFORD, N. C. (812)

EXHIBIT: Roberts M-1 Spinning Frames; modernization material for existing spinning frames including ball bearing Spindles and Top Roll Suspension, Double Apron Drafting, Aerocreels, Unitvac Suction Cleaners, Underframe Motor Drive Package, and all accessories. Twister speed-up modernizations.
IN ATTENDANCE: R. E. Pomeranz, J. N. Pomeranz, R. D. Padgett, D. E. Henderson, C. E. Oliver, M. C. Golden, C. E. Hollis, W. A. J. Peacock, R. C. Scott, M. O. Bradshaw, R. L. Carroll.

ROSE, E. F. & CO.
MAIDEN, N. C.—(302)

ROTHERM ENGINEERING CO., INC.
CHICAGO, ILL.—(215)

EXHIBIT: Working models of their Revolving Joints; also their Expansion Joints and Piping Compensators.
IN ATTENDANCE: H. S. Kuhn, H. D. Hohm.

ROY, B. S. & SON CO.
WORCESTER, MASS.—(206)

EXHIBIT: Their "In Place" portable Roll Grinder, "AlumaRoy" Drum Flat Grinder, Microsion Cradle, ball bearing Traverse Grinder, and metallic Grinder.
IN ATTENDANCE: Ed Barnes, Howard Duke, Don Bousquet.

RUDNICK, EDWARD S.
NEW BEDFORD, MASS—(245-46)

EXHIBIT: Products of the following firms represented by them: Gifu Keiki Co., Godo Shuttle Co., Izumi Bobbin Co., Nippon Card Clothing Co., Nippon Spindle Mfg. Co., and O-M Spinning Machine Mfg. Co. (See under these for exhibit).
IN ATTENDANCE: Edward S. Rudnick, William Bowlin, S. Tominaga, M. Sanada, Terry Ogisu.

SACO-LOWELL SHOPS
BOSTON, MASS.—(828)

EXHIBIT: A new Spinning Frame with a completely new system of drafting; new Opening equipment; modernization change-over items including new anti-friction Card Coilers; Spindles; Pawtucket Spinning Rings; movie by Victor Ring Traveler Div. of Travelers in operation.
IN ATTENDANCE: W. F. Lowell, Sr., E. J. McVey, R. M. Jones, J. W. Hubbard, F. S. Culpepper, J. W. Dickert, Herman Jones, A. L. Landau.

SCHACHNER LEATHER & BELTING CO.
CHARLOTTE, N. C.—(338)
also General Enterprises Co.

EXHIBIT: Samples only.
IN ATTENDANCE: B. M. Schachner, J. L. Harkey, P. G. Schachner, J. A. Schachner, Charles G. Hinkle.

SCHARER TEXTILE MACHINE WORKS
ERLENBACH-ZURICH,
SWITZERLAND—(452)
with Yeomans Textile Machinery Co.

SCHLAFHORST, W. & CO.
M. GLADBACH, GERMANY—(486)
With Terrell Machine Co.

SCHMIDT MFG. CO.
GREENVILLE, S. C.—(467)

EXHIBIT: Various Loom Parts made from Polydur and special Polychrome Leather; the Shirley Tension Tester; a new concept in Loom Reed construction; special textile Brushes of the S. A. Felton & Son Co.
IN ATTENDANCE: Ralph F. Schmidt and others.

SCOTT TESTERS, INC.
PROVIDENCE, R. I.—(401)

EXHIBIT: First showing of their completely new "User-Design" Model CRE Tester for tensile evaluations by the ultra-precise constant-rate-of-extension electric weighing technique; Model X-5 light duty Tensile Tester; Model B Internal Bond Tester; various types of Clamps; also products of Scott Testers (Southern), Inc. e.g. Balance for Yarn Count determination, various yarn Reels, and yarn Evenness Controller.
IN ATTENDANCE: Edwin H. Benz, John E. Hargreaves, and Southeastern sales and service representatives of Scott Testers.

SELIG CO., THE
ATLANTA, GA.—(232)

SEYDEL-WOOLLEY & CO.
ATLANTA, GA.—(238)

EXHIBIT: Their improved Warp Lubricator; a ½ scale model of their Niagara Twist-Setter yarn conditioning machine; samples of various SEYCO Chemicals including Permachem, their permanent type antiseptic finish.
IN ATTENDANCE: Vasser Woolley, John R. Seydel, A. W. LaGrone, David Meriwether, E. F. Harrison, Francis B. deLoach, Baxter Hemphill, V. R. Mills, W. H. Cutts, W. L. Whisnant, Howard McCamy, R. P. Anthony, Jr.

SHELL OIL CO.
NEW YORK, N. Y.—(103)

EXHIBIT: Their new "Vexilla" line of oils for textile machine lubrication.
IN ATTENDANCE: E. J. Colerick, K. H. Nonweiler, P. Goddard, M. S. Treadway, G. Potter, T. Stevens, E. L. H. Bastian.

SIGNODE STEEL STRAPPING CO.
CHICAGO, ILL.—(403-404)

EXHIBIT: Latest power strapping tools, also expendable Pallets, and new methods of Packaging.
IN ATTENDANCE: M. L. Fagin, S. W. Brown, C. H. Carlson, J. H. Elsinger, H. Sierra, C. E. Talbutt.

SIRRINE, J. E. CO.
GREENVILLE, S. C.—(204)

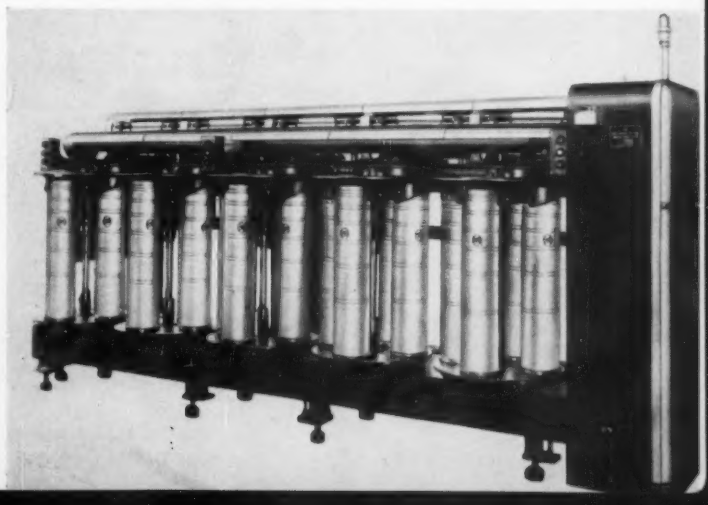
EXHIBIT: Space to serve as reception booth.
IN ATTENDANCE: R. R. Adams, A. D. Asbury, A. S. Bedell, F. B. Bozeman, J. H. Bringhurst, Jr., L. W. Burdette, W. L. Carpenter, G. W. Cumbus, H. S. Forrester, H. W. Frederick, G. C. Gaskin, O. F. Going, C. E. Green, S. M. Hunter, W. C. Kendrick, C. J. Liles, Milton Lite, J. T. Mallard, F. M. Martin, H. L. McDonald, H. W. Meakin, I. J. Mikell, D. G. Moon, G. R. Morgan, W. H. Nardin, G. P. Patterson, A. M. Rickman, J. L. Robertson, Jr., W. A. Robinson, L. A. Seaborn, J. F. Spellman, M. M. Stokely, H.C. Swannell, H. H. Watkins, C. T. Wise, George Wrigley, Jr.

SLAUGHTER MACHINERY CO.
CHARLOTTE, N. C.—(113)
see under Macbeth Corp.

SLIP-NOT BELTING CORP.
GREENSBORO, N. C.—(358)

SMITH, E. E. & SON, INC.
GASTONIA, N. C.—(313)

SMITH, L. C. BOBBIN WORKS
PHILLIPSBURG, N. J.—(338)



O. M. Spinning Machine Mfg. Co.'s new Drawing Frame with automatic doffing.

EXHIBIT: see under Ore-Lube Co.
IN ATTENDANCE: H. P. Brigham, Glen Davis, Charles G. Hinkle, Irving S. Bull, Jr.

SNOWISS B. FUR CO.
LOCK HAVEN, PA.—(432-34)

EXHIBIT: Various Skins for Shuttle Fur purposes, also Sheepskin Creel Pads.
IN ATTENDANCE: B. Snowiss, R. E. L. Holt, Jr., Floyd A. New, David R. Sellars, J. G. Skinner, Wm. Brad Dunson, John P. Norman, Walter H. Huff.

SONOCO PRODUCTS CO.
HARTSVILLE, S. C.—(244)

EXHIBIT: Cones, Tubes, Spools, Cores, Bobbins and Paper Specialties.
IN ATTENDANCE: C. B. Harper, W. M. Carpenter, W. K. Lewis, Jr., P. F. Williams, J. A. Reagan, Jr., B. H. Biggs, W. R. Peacock, J. E. Tigner, H. M. Adams, C. W. White.

SOUTHEASTERN LOOM & MACHINE WORKS
GREENWOOD, S. C.—(129-131)

EXHIBIT: Latest Model X2 Loom; new Card Drive; new 18"x42" Card Coiler; changeover equipment for Drawing Frame Coilers; repair parts for various models looms; spinning frame cylinder replacements.
IN ATTENDANCE: Al Reid, Dewey H. Williams, Billy Flinn, James Manley, O. V. Hair, J. A. Moore, Horace Whitmire, Conway Still, Royce Cannada.

SOUTHEASTERN SAFETY APPLIANCE CO.
ATLANTA, GA.—(346)

SOUTHERN LOOM DEVELOPMENT CO.
GREENVILLE, S. C.—(142)

SOUTHERN STATES EQUIPMENT CORP.
HAMPTON, GA.—(266)

SOUTHERN TEXTILE NEWS
CHARLOTTE, N. C.—(304)

SPAULDING FIBRE CO.
DOVER, N. H.—(202)

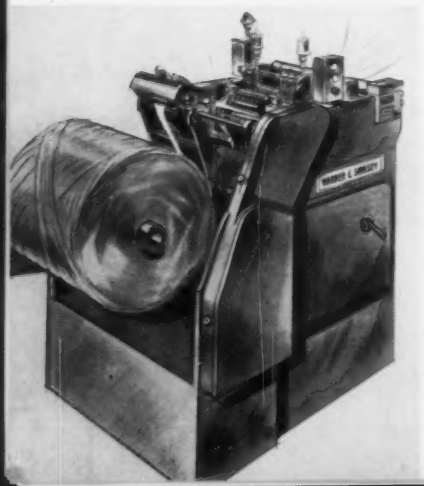
EXHIBIT: Roving Cans, Trucks and Boxes.
IN ATTENDANCE: Dan F. Dawson, Bruce King, and George Janetos.

SPECIAL INSTRUMENTS LABORATORY, INC. (SPINLAB)
KNOXVILLE, TENN.—(127)

EXHIBIT: Instruments for determining properties of fibers; electronic Cloth Inspector; Beta Evenness Control for Drawing Frames.
IN ATTENDANCE: Hugh G. Neil, Don Jackson, Tom Pace.

SQUARE D. CO.
CHARLOTTE, N. C.—(847-48)

EXHIBIT: Switchgear, Motor Controls, Adjustable Speed Drives, other control and distribution equipment for use in textile plants.
IN ATTENDANCE: Irv Swanson, Hal Prescott, Len Murrans.



Warner & Swasey's new Wide Set-Over Pin Drafter

STALEY, A. E. MFG. CO.
DECATUR, ILL.—(220, Annex 1)

EXHIBIT: Their various types and grades of Starches and Gums for the textile industry.
IN ATTENDANCE: L. E. Doxsie, E. H. Grosse, F. J. Kekeisen, W. N. Dulaney, D. A. Barnew, H. A. Mitchell, H. H. Ector, Crawford Garren, N. N. Harte, Jr., L. J. McCall, B. O. Merritt, Jr.

STANLEY WORKS, THE
NEW BRITAIN, CONN.—(461)

STEEL HEDDLE MFG. CO.
PHILADELPHIA, PA. and GREENVILLE, S. C.—(137)

EXHIBIT: Loom Harness equipment for all type looms, Reeds, Shuttles, Drop Wires, Bobbins, and Picker Sticks. Loom equipped with multiple products manufactured by them and subsidiaries.
IN ATTENDANCE: H. W. Fehr, F. H. Kaufmann, A. J. Kieny, J. J. Kaufmann, Jr., G. D. McGill, H. P. Goodwin, S. R. Zimmerman, Jr., D. L. Batson, E. M. Lail, J. M. Neuffer, Dave Macintyre, J. C. Jacobs, B. D. Pritchett, R. B. Stevens, H. I. Cash, Wes Hixon, Jim Parnell.

STEIN, HALL & CO., INC.
NEW YORK, N. Y.—(427-28)

STERLING ENG. & MFG. CO.
WILKES-BARRE, PA.—(216)

EXHIBIT: Self-stacking Boards for handling bobbins, cones, tubes, quills, etc., also yarn handling Trucks.
IN ATTENDANCE: George McGee.

STRANDBERG ENGINEERING LABORATORIES, INC.
GREENSBORO, N. C.—(832)

EXHIBIT: Moisture Indicators and Controls for Slashers, Tenter Frames, Dryers and Pickers; Loom Stop Counters; Auto-Count Systems demonstrated on model mill.
IN ATTENDANCE: Charles F. Strandberg, Jr., W. E. Piemmons, E. R. Bond, J. W. Foster, F. Neal Houston, C. B. Pederson.

SUNRAY CO.
SPARTANBURG, S. C.—(212)
With Greenville Textile Supply Co.

SUPERIOR BOLSTER CO.
GASTONIA, N. C.—(307)

SYKES FOUNDRY & MACHINERY CO., INC.
BURLINGTON, N. C.—(146)

SYLVANIA ELECTRIC PRODUCTS, INC.
ATLANTA, GA.—(421)

EXHIBIT: New developments in Lighting.
IN ATTENDANCE: R. G. Slauer, P. P. Harrison, R. C. Marshall, D. W. Jeans, H. R. McClellan, Jas. F. Hagan, C. C. Beyer, Ken Fletcher.

TAYLOR INSTRUMENT CO.
ROCHESTER, N. Y.—(454)

TENNANT, G. H. CO.
MINNEAPOLIS, MINN.—(420)

EXHIBIT: Their Model E Floor Machine; Model 40 Power Sweeper; and No. 15 Heavy Duty Floor Seal.
IN ATTENDANCE: R. F. Guthrie, George Billings, William Bostwick, Dallas Peel, William Teague, John Foreman, Frank Graham, Leonil Bass.

TERRELL MACHINE CO.
CHARLOTTE, N. C.—(486)

TEXAS CO., THE
ATLANTA, GA.—(448-49)

EXHIBIT: Texaco Lubricants used in the textile industry, including their "Texspray".
IN ATTENDANCE: C. F. Walker, F. G. Mitchell, W. P. Camp, F. E. A. C. Keiser, Jr., J. M. Hackney.

TEXIZE CHEMICALS, INC.
GREENVILLE, S. C.—(430)

TEXPAK PLASTICS, INC.
ROCKINGHAM, N. C.—(319)

EXHIBIT: Finished products in various stages of manufacture, such as Picker Sticks, Sweep Sticks, Pickers, Lug Straps, Holdups and Fiberglas Doff Boxes and other textile supplies.
IN ATTENDANCE: Nicholas W. Dockery, John C. Dockery.

TEXTILE BULLETIN
CHARLOTTE, N. C.—(203)

TEXTILE ELECTRONICS, INC.
CHARLOTTE, N. C.—(462)

EXHIBIT: Demonstration of "Qualitex", their electronic slubcatcher, in operation on a running Winder.
IN ATTENDANCE: James I. Test, Charles D. Lee, Jr., Hugh K. Smith, Ben H. Crawford, Marvin D. Lindsay, James O. Casey, Hendrik Glastra.

TEXTILE INDUSTRIES
ATLANTA, GA.—(408)

TEXTILE PUBLICATION SERVICE OF JACOBS BROTHERS
CLINTON, S. C.—(273)

EXHIBIT: Manuals, posters, handbooks, publications, stickers, awards, etc. dealing with: Safety, good housekeeping, production, communications, and policies in the textile plants.
IN ATTENDANCE: Hugh S. Jacobs and William P. Jacobs.

TEXTILE SHOPS, THE
SPARTANBURG, S. C.—(115)
with Manton-Gaulin Mfg. Co.

TEXTILE WORLD
NEW YORK, N. Y.—(224)

TEXTUBE CORP.
STAMFORD, CONN.—(124)

THEILER, H. J. CORP.
WHITINSVILLE, MASS.—(823)

TOLEDO PIPE THREADING MACHINE CO.
TOLEDO, OHIO—(141)

TOLEDO SCALE CO.
TOLEDO, OHIO—(415)

EXHIBIT: Portable Cotton Lap Scale with automatic printweigh, also representative models of their line of scales for the textile industry, such as Fan Scales, Net-Weighing Scales, Portable and Floor Scales.
IN ATTENDANCE: M. W. Mengel, H. B. Sanford, W. F. MacKinnon, W. S. Heape.

TON-TEX CORP.
ENGLEWOOD, N. J.—(432-33-34)
with R. E. L. Holt, Jr. & Associates

TRION, INC.
McKEES ROCKS, PA.—(317)

TRUMETER CO.
NEW YORK, N. Y.—(227)

EXHIBIT: Measuring and Counting instruments; Piece End Sewing machines.
IN ATTENDANCE: A. Abel, Eric Seligmann, Tom Aydelette, Fred Slaughter, R. Jacobus.

UNION BAG-CAMP PAPER CORP.
NEW YORK, N. Y.—(350-51)

EXHIBIT: Corrugated Shipping Containers for the textile industry.
IN ATTENDANCE: J. W. Butler, F. P. Grimes, R. C. Day, T. J. Fahey, J. T. Hough, H. A. Murrill, Jr., A. Smith, Jr., R. W. Williams, D. Ellis.

UNIVERSAL WINDING CO.
PROVIDENCE, R. I.—(810-11)

EXHIBIT: Unifil Loom Winders; Model 10 Ring Twister with latest improvements; Model 210 Twister-Coner; and No. 959 Take-Up Machine. Brush textile Testing equipment.

IN ATTENDANCE: R. Leeson, R. S. Pennock, J. W. Stribling, F. P. Barrie, F. J. Barrows, E. C. Parish, J. R. Breen, H. H. Richardson, L. E. Ffrench.

U. S. BOBBIN & SHUTTLE CO.
GREENVILLE, S. C.—(125)

EXHIBIT: No products display.
IN ATTENDANCE: M. L. Johnston, C. W. Hite, J. C. Fulling.

U. S. RING TRAVELER CO.
PROVIDENCE, R. I.—(801)

U. S. TEXTILE MACHINE CO.
SCRANTON, PA.—(835-A)

EXHIBIT: Single Spindle machine for making regular or novelty yarns; ACME Jumbo Texturizer 50-spindle machine showing a number of important features.
IN ATTENDANCE: A. W. Thomas, Jr., Don W. Scheuer, Pacifid J. Thomas, C. H. White, Michael Turner, William Russell.

USTER CORP.
CHARLOTTE, N. C.—(473)

EXHIBIT: Two models of their Evenness Tester; High-Speed Winding device; Linear and quadratic Integrators; their Hy-Lo Yarn Imperfections Indicator; Lap Varimeter and Humidity Compensator; Uster Spectrograph.
IN ATTENDANCE: Dr. Benno Bissig, Dr. Hans Locher, W. B. Floyd, Hans Winiger, Vernon Brockman, Jack Taylor, Burton Sweet, Aldo Broccari, William Boyd, James Wright.

VALENTINE, IRA M.
ATLANTA, GA.—(106-A)

Representing American Stock Gear Div., Geo. P. Dorris Co., Ramsay Chain Co. (See under individual firms)

VALVAIR CORP.
AKRON, OHIO—(318)
With L. W. Kinnear & Co.

VAUGHN AND COMPANY
GREENVILLE, S. C.—(335-A)

EXHIBIT: Their "Omark Drive-It" powder-actuated tools and "Omark Hammer Drive" tool.
IN ATTENDANCE: James W. Vaughn, Dennis F. Vaughn and Dick Norris.

VEEDER-ROOT, INC.
HARTFORD, CONN.—(107)

EXHIBIT: Various types of Hank Counters; Loom Cut Meters; Yardage Counters; Pre-determining Counters; and new quick reset, high speed revolution counter for inspection tables.
IN ATTENDANCE: G. H. Anthony, A. E. Kallinich, T. Nelson, F. J. Swords, R. G. Conant, H. E. Mansfield.

VERMONT SPOOL & BOBBIN CO.
BURLINGTON, VT.—(128)
with Watson & Desmond

VICTOR RING TRAVELER CO.
DIV. OF SACO-LOWELL SHOPS
PROVIDENCE, R. I.—(835)

EXHIBIT: see Saco-Lowell Shops

WAK INDUSTRIES
CHARLOTTE, N. C.—(335)

EXHIBIT: Various types of Counters, including Repeat, Shift, Clutch, Yardage, electric Impulse, Pick, and Ratchet Counters; also remote Yardage Electric Impulser.
IN ATTENDANCE: James H. Dougherty and J. L. Cole.

WALWORTH CO.
NEW YORK, N. Y.—(352-353)

WARNER & SWASEY CO.
CLEVELAND, OHIO—(834)

EXHIBIT: First public demonstration of their new M-3700 Pin Drafter Intersecting Draw Frame with wide setover and ball delivery; longitudinal ball Creel with mercury type stop motion; 20" Can Coiler and Turntable with stop motion; and new single-lever Clamp with pressure roll assembly.
IN ATTENDANCE: T. L. Stilwell, A. F. Barney, H. K. Jennings, R. E. Schuelke.

WATSON & DESMOND
CHARLOTTE, N. C.—(128)

EXHIBIT: Paper Spinning Tubes and Quills; all types of wooden Bobbins, Cones and Spools; plastic Quills; Shuttle Fur; paper Dye Tubes; and headless Shipping Package.
IN ATTENDANCE: Pat Desmond, Clif Watson, Dick McPhail, John Wyatt, Ralph Patton, Ed Ball, Dorsey Lanier, Jesse Dodgen, Jerry Olwell.

WAT-DES CORP.
CHARLOTTE, N. C.—(128)
with Watson & Desmond

EXHIBIT: Maier Prima Flyers; R&F Spinning and Twisting Rings; Toenniessen Taper Board Yarn Inspection Machine; and Dubo Spindle Lockwashers.

WATSON-WILLIAMS MFG. CO.
MILLBURY, MASS.—(128)

WEST CHEMICAL PRODUCTS, INC.
RICHMOND, VA.—(340)

EXHIBIT: Floor maintenance products, Insecticides, Disinfectants, Soaps and other Cleansing materials; also Floor Machines, Spraying Equipment, etc.
IN ATTENDANCE: C. F. Powell, H. W. Anderson, J. F. Manning, G. O. Wagoner, E. G. Fowler, E. B. Messer.

WESTINGHOUSE AIR BRAKE CO.
WILMERDING, PA.—(366)
with Livingston & Haven

WESTINGHOUSE ELECTRIC CORP.
PITTSBURGH, PA.—(423-426)

EXHIBIT: Complete line of Motors and Control for the mill; Variable Speed Drive; Dry-Type Transformers; Micarta, their laminated plastic; also information on their industry-wide maintenance and repair service.
IN ATTENDANCE: Messrs. Holstein, Brenner, Rose, House, Hoke, Cullis.

WESTINGHOUSE LAMP DIV.
CHARLOTTE, N. C.—(406)

EXHIBIT: They will feature their new development "Rayescent" TM Lighting, showing a Rayescent Lighting Panel as a preview of the lighting of the future.
IN ATTENDANCE: J. W. Johnston, John F. Baker, J. D. Mitchell, R. A. Corvey, Roy D. Thornton, Jr.

WEST POINT FOUNDRY & MACHINE CO.
WEST POINT, GA.—(820-22)

EXHIBIT: Slashers and finishing equipment.
IN ATTENDANCE: R. L. Mundhenk, R. V. Lee, C. G. Holt, Bonner B. Brown, Jr., R. C. Monk, E. B. Morrison.

WHEEL TRUEING TOOL CO.
CAMDEN, S. C.—(323) with Geo. H. Pennell

WHITING PRODUCTS CO.
CAMDEN, S. C.—(323)

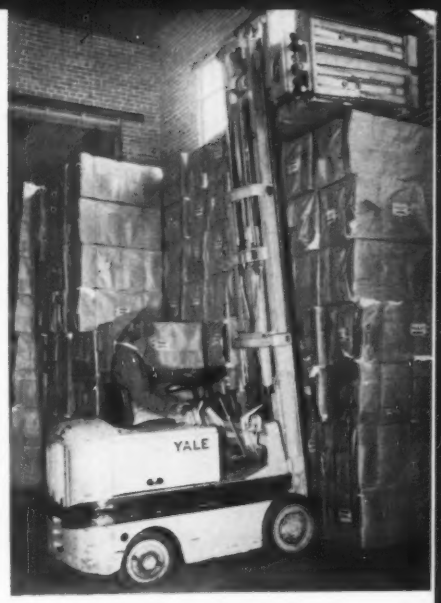
EXHIBIT: Pictures of Spooler Conveyor installations.
IN ATTENDANCE: W. S. Whiting, John Harmon.

WHITIN MACHINE WORKS
WHITINSVILLE, MASS.—(804-05-06)

EXHIBIT: For the first time their new full length Piedmont Spinning Frame (see elsewhere in this issue).
IN ATTENDANCE: J. Hugh Bolton, E. K. Swift, Jr., J. H. Bolton, Jr., R. I. Dalton, Sr., R. I. Dalton, Jr., R. J. McConnell, J. L. Orr, L. M. Hair, R. W. Dunn, J. Calvert, B. B. Peacock, W. G. Stainton, O. G. Murphy, H. B. Patterson, W. V. Byers, E. M. Kennedy, M. W. Keeler, H. T. Heathcote, W. J. Dunleavy, G. F. McRoberts, and J. R. Sanderson.

WHITIN MACHINE WORKS—PARTS DPT.
WHITINSVILLE, MASS.—(508-09)

EXHIBIT: Repair and replacement parts and change-over equipment, stressing facilities of the Charlotte Div.
IN ATTENDANCE: R. W. Rawlinson, R. J. Cunningham, B. C. Grieb, R. Taylor, J. F. Sumner, W. E. Cole, D. Elms, J. D. Stone, C. M. Banks, R. F. Long and E. Hemphill.



Yale's new Triplex Mast Truck.

WHITINSVILLE SPINNING RING CO.
WHITINSVILLE, MASS.—(209)

EXHIBIT: Complete display of Diamond Finish Spinning and Twister Rings, featuring their new Anti-Wedge Flange design and Backslope Twister Ring.
IN ATTENDANCE: William P. Dutemple, George T. Brown, William K. Shirley, Peter C. Everett.

WOOD's, T. B. SONS, CO.
CHAMBERSBURG, PA.—(243)

EXHIBIT: Various Drives, Couplings, Life-Lub Ball Bearings, and Sheaves.
IN ATTENDANCE: C. O. Wood, Jr., G. M. Henderson, R. C. Reese, Joseph Seawell, Jr., E. R. Kleinlein, B. W. Parsons, E. L. Nuernberger, C. R. Shank, R. C. Rotz.

WORLD DRYER CORP.
CHICAGO, ILL.—(220) with Batson Mg. Co.

WRENN BROS.
CHARLOTTE, N. C.—(485)
Representing The Colson Corp. and Hyster Corp.

YALE & TOWNE MFG. CO.
PHILADELPHIA, PA.—(826-27-28)
with Coleman Co., Inc.

EXHIBIT: First showing of their new Lift Truck "Triplex Mast".

YEOMANS TEXTILE MACHINERY CO.
SPARTANBURG, S. C.—(452)

EXHIBIT: Products of the following firms: Air Loc Vibration Dampening Pads of Clark-Cutler-McDermott Co., Franklin, Mass.; Bobbin Winders of Scharer Textile Machine Works, Zurich, Switzerland.
IN ATTENDANCE: F. Roland McDermott, Robert H. Schmitt, Charles L. Yeomans, Charles H. Turner, Jacques Scharer, Kasper Laager, Otto Zollinger, Charles L. Yeomans, Charles H. Turner.

YOUNG, F. A. MACHINE CO.
GASTONIA, N. C.—(257 & 258)

EXHIBIT: Their new 24" wide Spinning Frame "The Vertical Y"; also NYAF conversion high draft changeover and umbrella Creels; Node Control Rings and silent Chain Drivers; also repair parts, Flyers and Spindles; Rolls of all types.
IN ATTENDANCE: F. A. Young, A. J. Haselden, Charles Webster, James Lindsay, Tony Hayes, Bobby Wright.

ZINSER
CHARLOTTE, N. C.—(128)
with Watson & Desmond

EXHIBIT: Roller bearing Spindles.

See Floor Plan on next page!

Floor plan

20th Southern Textile Exposition

Textile News Briefs

Form Canadian Fiber Firm

Chemcell Fibres, Ltd., has been formed by Canadian Chemical & Cellulose Co., Ltd., Montreal, Canada, to handle yarn and fiber operations. Douglas Keefe, Canadian Chemical vice president, has been named president of the new firm. It was explained that increased demand for Arnel triacetate fiber has required an expansion of the company's yarn production equipment at Edmonton. Capacity will be increased by 25% for either Arnel or acetate.

To Promote Rugs on TV

Aldon Rug Mills will promote its new line of rugs and carpets this fall on both "Today" and "The Jack Paar Show" on the NBC-TV network. It is believed that Aldon's TV exploitation will set a precedent for such promotion by a soft surface floor coverings manufacturer. A heavy trade advertising program will precede the national consumer campaign on TV.

Woolen Yarn Session

A special two-week session in woolen yarn manufacture, sponsored by Davis & Furber Machine Co., Andover, Mass., and held at Lowell Technological Institute, Lowell, Mass., was completed June 27. The course featured six mill trips and 24 guest speakers from industry as well as four Lowell staff lecturers. Lectures on blending, carding, and spinning techniques and theory were supplemented with talks on management problems, quality control, production engineering, waste control, machine development and preventive maintenance.

Barbour Division Sold

Purchase of the assets of the Instrument Division of the Barbour Stockwell Co., Cambridge, Mass., has been announced by Curtis & Marble Machine Co., Worcester, Mass. manufacturers of textile machinery. Curtis & Marble will operate the recently-acquired unit as Barbour Stockwell Instruments. The new Curtis & Marble division will continue to produce tachometers, adapters, actuators, gear boxes, flexible shafts and hubodometers. Miles Pendleton, formerly with Peterson & Neville, Inc., has been hired as general manager of the division.

New Franklin Process Office

The Franklin Process Yarn Dyeing Division of Indian Head Mills

Sweaters knit from lofty, butter-soft Orlon yarns, package dyed by Globe—have a cashmere-like quality of beauty and softness which delights women. They are always beautiful to see—lovely to feel—and comfortable to wear.

You can rely on Globe for package dyeing of Orlon in sparkling colors of unsurpassed beauty.

Globe does package dyeing on tubes, skein and warp dyeing and bleaching, warp mercerizing and sizing.

Globe Dye Works Co.
1865 1958

Yarns we process include cotton, rayon, worsted, nylon, linen, blend and novelty yarns, and all synthetics.

4500 WORTH STREET, PHILADELPHIA 24, PA.

JEFFERSON 5-3301

Accurate
Yarn is under perfect tension from a central location. One dial adjustment changes tension uniformly at all tension stations.
The Lindly Electrotense: Simple, compact, inexpensive. Accurately controls yarn tension from zero to about 20 grams.

DIAL CONTROL of YARN TENSION at Any Number of Stations!

The Lindly ELECTROTENSE is the new, inexpensive, electro-mechanical way to control yarn tension from almost zero to about 20 grams. A turn of a single, centrally located dial applies desired tension evenly and simultaneously at all tension stations.

What are the advantages?

The Lindly ELECTROTENSE permits easy, instant change of yarn tension. It results in more uniform beams, more yarn per warp beam, less maintenance and machine down-time, fewer broken ends and better cloth.

GET THE FULL FACTS ON THIS NEW TIME-SAVING, QUALITY-IMPROVING, COST-CUTTING LINDLY SYSTEM. WRITE, WIRE OR PHONE TODAY!

It Pays to Know LINDLY the Lindly Count

LINDLY & COMPANY, INC.
248 HERRICKS ROAD
MINEOLA, NEW YORK

VISIT US AT BOOTH 813—GREENVILLE SHOW

has opened a sales office in Room 611, Turks Head Bldg., Providence, R. I. I. Willard Gardner and Robert S. Allen will service New England customers through the Providence office.

Steel Strapping Program

Brainard Steel Division of Sharon Steel Corp. has inaugurated a national account sales program to better serve textile strapping customers having many plant locations throughout the country. A. E. Bardwell has been named head of the new program and will spend most of his time in the field with the Brainard salesmen correlating sales and services between these plants and developing new uses for steel strapping.

Movie About Packaging

The country's large shopping centers form the setting for the flexible packaging industry's first movie on the production of a package and its place in the self-service retail store. The film, was premiered recently by Milprint, Inc., of Milwaukee, Wis. The 18-minute sound film in color will be available through Milprint for showings to trade associations, conventions, and companies interested in packaging. The film was produced to show the sales effectiveness of modern packaging design, techniques and production.

More Fabulized Licensees

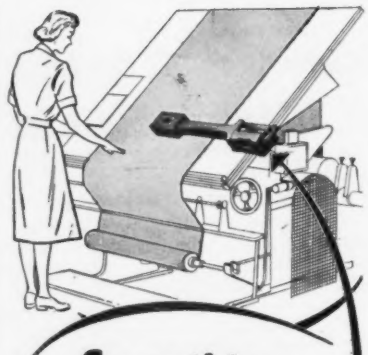
Five additional lingerie manufacturers have been licensed to use Fabulized nylon tricot in their garments, it was announced by Fabulized, Inc., and Citation Fabrics Corp. This makes a total of 18 lingerie cutters now included in the Fabulized program. The new licensees are: Charlet Underwear Corp., Florelee Underwear Co., Lionell Lingerie, Jack Rappaport Co., and Preview Lingerie Inc., all of New York. Fabulized is the finish said to give nylon and other synthetic fabrics the highest degree of absorbency ever developed.

Suspend Celaire Licensing

Celanese Corp. of America has announced suspension, for the time being, of issuance of Celaire trademark licenses due to the heavy demand for Celanese twist-set acetate carpet fiber. The Celaire trademark identifies twist-set Celanese acetate used in carpets—primarily in blends with nylon.

Polyethylene Yarn Prices

Reeves Brothers, Inc., has eliminated the premium of 10 cents per pound on the price of all three of its ultraviolet stabilized Reevon polyethylene yarns. They are now available at the same price as conventional polyethylene yarns, which are unchanged.



Something you owe your customers

Accurate textile measurement is what your customers expect. Give it to them! Show them indisputable evidence with a "TRUMETER" printed ticket or mill tag, delivered at any point during the run. This way you not only eliminate short-measure complaints and illegible handwritten records—you cut o . waste *completely*. And that means EXTRA PROFITS!

"Trumeter" Standard Measuring Machine

"TRUMETER" can be fixed to most Inspection, Plaiting, Winding, Rolling and Doubling machines. Models are available for all types and widths of material—fine nylon, woolens, worsteds—even carpets, plastics, etc. It adds one way—subtracts the other and delivers its printed ticket with one depression of a lever. "TRUMETER" is always accurate — always reliable. There's one for *your* need. Write now for particulars of complete line.

"TRUMETER"

MECHANICAL QUICK RESET COUNTERS *for most industrial needs*

• MEASURING • REVOLUTION
• PRE-DETERMINED • STROKE

Write for details

TRUMETER COMPANY

Sales and Service *38 West 32nd St., N.Y.C. 1, N.Y.*

See us at Booth No. 227, in Greenville.

IN CANADA:
W. J. Westaway Co., Ltd.
Montreal—Toronto—Hamilton

DYERS
THROWSTERS

Over 35 Years of experience

The
PERFECT
MATCH

Nylon
Worsted
Spun Yarns
Dacron
Rayon

THE
COMPLETE
PACKAGE

Throwing
Dyeing
Packaging

HOFFNER
RAYON CO.

GENERAL OFFICES

General Offices at Belgrade and Ontario Streets, Philadelphia 34, Pennsylvania. Plants at Philadelphia and Quakertown, Pennsylvania.

SALES REPRESENTATIVES

Shannonhouse & Wetzell
Johnston Bldg. Charlotte, N. C.
The Tillinghast-Stiles Co.
Providence, R. I. Chicago, Ill.
R. C. Osborne & Co.
Broad St. & Allegheny Ave.
Phila. 32, Pa.
Carl L. Miller
808 First Nat'l Bank Bldg., Utica, N. Y.

The three types of polyethylene monofilaments made by the company are Series 670, branched polyethylene (shrinkable); Series 760, linear polyethylene, (modified); and Series 700, linear polyethylene (high tenacity).

Yarn Softeness Measurer

An apparatus by which softness of cotton yarns can be measured, and the construction and operation of such equipment, is described in a paper by Evald L. Skau, Edith Honold and William A. Boudreau, of the Southern Utilization Research and Development Division of the Agricultural Research Service, USDA. Softness of the yarn is measured in terms of the percent increase in yarn width when the yarn is subjected to lateral pressure between two parallel plane surfaces. *Reprints of the paper, "A Method for Measuring Yarn Softness and Its Use to Show the Effect of Single and Ply Twist on the Softness of 31/2 Cotton Yarns," may be obtained by writing editors.*

Ion Exchange Regeneration Data

Ten methods of ion exchange regeneration are discussed in a technical reprint issued by Graver Water Conditioning Co. The paper, Technical Reprint T-159, points out that no matter what type of demineralizer plant is used, the properly selected regeneration method must provide the right amounts of chemical, proper concentrations and sufficient contact time with exchangers. *For free copies of the reprint, write the editors.*

Manual on Borohydrides

Metal Hydrides Incorporated has issued a new 34-page manual of techniques covering the properties, reactions and handling requirements of sodium and potassium borohydrides. The manual includes detailed discussions of reactions in aqueous and nonaqueous solvents and describes the more important commercial uses of the borohydrides. *Free copies are available by writing the editors.*

Free Stainless Steel Manual

Allegheny Ludlum Steel Corp. has issued a revised 40-page booklet on the use of stainless steel in the chemical industry. The booklet includes special sections on the process, plastics, petrochemical, detergents manufacturing and nuclear power industries. *For free copies write the editors.*

Personnel Changes

Frank W. Tucker has been appointed manager of Torrington Co.'s Washington, D. C. district office.

(Continued on Page 117)

...with the Lindly
Automatic Photo-Scanner

Set the amazing Photo-Scanner to detect your smallest allowable defect. Automatically, it does the rest...continuously scanning the tricot—as it's knitted—automatically stops the machine for larger faults.

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Automatic Yarn Defect Analyzer

It Pays to Know the Lindly Count

LINDLY & COMPANY, INC.
248 HERRICKS ROAD
MINEOLA, NEW YORK

VISIT US AT BOOTH 813—GREENVILLE SHOW

U. S. MAN-MADE FIBER PRICES

This schedule lists the prices of yarns, staple and tow as reported by the producers in August 1958. All prices are given as subject to change without notice.

RAYON FILAMENT YARN

American Bemberg

Current Prices

Regular Production Reel Spun Yarn

Den/Fil	No Turn Skeins	Turned* Skeins & Cones	8½ Turns	High Turn Skeins & Cones 12 Turns	15 Turns	18 Turns
40/30	$1.49	$1.95	....	....	....	$2.08
50/36	1.24	1.50	....	....	....	1.80
65/45	1.14	1.30	....	$1.53	....	1.58
75/60**	1.04	1.18	....	1.41	$1.46	1.49
100/74**	.95	1.02	....	1.33	1.36	1.44
125/60	.94	1.05	$1.09	1.30	....	....
150/120	.93	1.02	1.12	1.27	....	....
300/225	....	.95	....	....	1.08	....
900/372	....	.85	....	....	....	....
1800/744	....	.85	....	....	....	....

* Turn includes twists up to 6 turns on 40 and 50 denier, and up to 5 turns on heavier deniers.
** Spun Dyed Cupracolor Black 15¢ per lb. extra.

"44" HH Spool Spun Yarn

Den/Fil	No Turn Tubes	No Turn Beams	5 Turn Beams	5 Turn Cones	12 Turn Beams	12 Turn Cones	15 Turn Cones
40/30	$1.35	$1.35	....	....	....	....	....
50/36	1.00	1.00	....	....	....	....	....
65/45	1.05	....	....	....	....	$1.42	....
75/45*	.97	....	$1.08	$1.08	$1.31	1.31	$1.39
100/60*	.89	....	1.03	1.03	1.23	1.23	1.31
125/60	.84	....	.99	.99	....	....	....
150/90*	.77	....	.81	.81	1.15	1.15	1.24
150/120	.81	....	....	.93	....	....	....

* Available also in Spun Dyed Cupracolor Black at 15¢ per lb. extra.

"44" HH "Parfe" (Type 51) Spool Spun Yarn

Den/Fil	No Turn Cones	5 Turn Cones	5 Turn Beams	12 Turn Cones	15 Turn Cones
50/36	$1.60	$1.85	$1.85	....	....
75/45	1.45	1.55	1.55	$1.75	$1.85
100/60	1.35	1.45	1.45	1.65	1.75
150/90	1.18	1.25	1.25	1.60	1.70

Nub-Lite (Short Nubbi)

Code	Den/Fil	2½ Turn Natural Cones	2½ Turn Cones*	5 Turn Natural Cones	5 Turn Cones*
1515	160/90	....	....	$1.45	$1.35
1519**	155/90	....	....	1.45	1.35
2008	200/120	....	....	1.06	.96
3002	315/180	$1.10	$1.00	....	....
4011	410/224	1.10	1.00	....	....
6001	600/360	1.08	.98	....	....
8001	860/450	1.08	.98	....	....

* Basic price for cones when dyed. Dyed Colors 30 and 35 cents above basic price. Prices based on 200 lb. dyed lots only. Prices for natural yarn skeins same as natural cone prices.
** Code 1515 can be run in warp or filling.

CUPIONI Type B

Code	Den/Fil	2½ Turn Cones	5 Turn Cones
9610	50/30	....	$2.14
9650	70/45	$1.64	....
9660	100/60	1.48	....
1545	150/90	1.25	....
9720	200/120	1.20	....
9730	285/135	1.10	....
9782	450/225	1.10	....
9814	600/372	1.07	....
9837	940/372	.97	....

"Spun Dyed Cupracolor is spun 150, 285, and 940 deniers at 35¢ per pound extra. Cupracolor Black comes in all deniers."

STRATA SLUB

Code	Den/Fil	Turned Cones	Price
9747	275/225	3½	1.20
9798	450/372	2½	1.10
9823	600/372	2½	1.05
9847	960/372	2½	.97
9885	1290/372	1½	.95
9934	2680/744	1½	.95

"Spun Dyed Cupracolor is spun in 600 and 960 deniers at 35¢ per pound extra."

FLAIKONA

Code	Den/Fil	Turned Cones	Price
9669	150/148	2½	$1.35
9769	300/224	3½	1.40
9807	600/405	2¼	1.20
9840	900/450	2½	1.10
9924	2000/744	2½	1.00

"Spun Dyed Cupracolor Black 35¢ per pound extra."

Terms: Net 30 days, F. O. B. shipping point. Minimum freight allowed to consignee's nearest freight station east of the Mississippi River. To points west of the Mississippi River minimum freight allowed to Memphis, Tennessee. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold F. O. B. delivery point.

American Enka Corp.

Current Prices
Effective July 25, 1958
Standard Quality Yarns

Standard Quality Rayon Yarns

NATURAL

Den./Fil.	Luster	Turns		Weaving Cones	Beams	Skeins Long	Skeins Short	Cakes	Knitting Cones	Tubes
50/18	E	5	S						1.56	
50/20	B	2.5	S					1.45		
75/10	B	3	S&Z					.95		
75/18	E	4	S						1.07	
75/30	B	2.5,4	S&Z	1.07	1.07	1.15	1.19	.95		
75/30	B	8	S	1.17		1.32	1.37		1.17	1.22
75/45	P,E	2.5, 4,5	S&Z	1.07	1.07	1.15	1.19	.95	1.07	
75/60	B,P	3,4	Z	1.09				.97		
100/14	B	3	S&Z				1.03	.83		
100/40	B,E	12	S						1.22	
100/40	B,P,E	4,5	S&Z					.83	.91	
100/40	B	6	S	1.10		1.19	1.24	1.02		
100/40	B,P	2.5,4	S&Z	.91	.91	1.00	1.03	.83		
100/60	B	4	S&Z					.83		
100/60	E	2.5	S	.93	.93			.85		
125/40	E	3	Z					.80	.83	
150/40	B,P,E	2.1,3	S&Z	.76	.76	.85	.87	.72	.76	
150/40	B,E	5	S&Z	.84	.84	1.04	1.09	.80		
150/40	B,P,E	8	S&Z	.89	.89	1.09	1.14	.85		
150/90	E	2.1	S&Z	.77	.77			.73		.82
200/40	P	3	Z	.75	.75	.84	.86	.71	.75	
200/40	B	5	S				.95	.88		
250/60	P,E	2.4	Z			.83	.85		.74	
300/30	E	3	S	.75	.79					
300/50	B,E	3	S	.70	.70					
300/60,120	B,P,E	2.1	S&Z	.67	.67	.73	.75	.65	.67	
300/60	B	3.5	S	.67	.67	.73	.75	.65		
300/60	B	7	S	.80			.83			
300/40,120H.T.	B	2.5, 3,4	S	.69	.69			.67		
450/80	B,E	3	S	.63	.65	.70	.72	.61		
600/80	B,E	3	S	.65	.67			.63		
600/120	B	3	S	.63	.65			.61		
900/120	B	3.4	S	.63	.65	.70	.72	.61		
900/120H.T.	B	3.6	S	.65	.65			.63		

B—Briglo P—Periglo (Semi-Dull)
E—Englo (Dull) H.T.—High Tenacity

Jetspun® (Colored Yarns)

Den./Fil.	Tenacity	Turns	Weaving Cones	Beams	Colors
100/40	Regular	2.5S	$1.28	$1.28	All
150/40	Regular	2.1S	1.11	1.11	All
200/40	Regular	2.3S	1.22	1.22	All
300/120	Regular	2.1S	1.03	1.03	All
450/80	Regular	3.0S	.99	.99	All
300/40	High	3.4S	1.05	1.05	All
600/80	High	3.4S	1.01	1.01	All
900/120	High	3.4S	1.00	1.00	All

® Registered Trade Mark for American Enka Solution dyed rayon yarn.

Skyloft (Lofted Rayon Filament Yarns) Natural and Jetspun®

Denier	Denier per Filament	Twist	Natural	Cones or Tubes Black	Other Colors
1000	7.5	3.5S	$.79	$1.14	$1.14
2200	15	3.5S&Z	.67	.77	.84
2700	15	3.5S&Z	.62	.75	.82
4300	8	3.0S&Z	.64	.74	.81
5300	15	3.0S&Z	.63	.73	.80

American Viscose Corp.

Effective July 24, 1958

Graded Yarns

Denier	Filament	Type	Short Skeins 2/2	Long Skeins	Cones Tubes	Beams Spools	Cakes
		Regular Turns					
50	20	Bright & Dull	$	$1.59	$1.56	$1.56	$1.45
60	10	Bright	....	....	1.41	....	1.30
75	10-30	Bright	1.19	1.15	1.07	1.07	.95
75	30	Dull	....	....	1.07	1.07	.95
100	14-40	Bright	1.03	1.00	.91	.91	.83
100	60	Dull	....	....	.93	.93	.85
150	24-40	Bright	.87	.85	.76	.76	.72
150	40	Semi-Dull	.87	.85	.76	.76	.72
150	40	Dull	....	....	.76	.76	.72
150	90	Dull	....	....	.77	....	.73
200	10-44	Bright	.86	.84	.75	.75	.71
250	60	Semi-Dull & Dull	.85	.83	.74	.74	.71
300	15	Bright	....	.71	.67	.67	....
300	30	Dull Flat Filament	....	....	....	.79	....
300	44	Bright & Dull	.75	.73	.67	.67	.65
300	234	Dull	....	....	.77	....	.75
450	100	Bright	....	.70	.63	.65	.61

600	100	Bright & Dull	....	.70	.63	.65	.61
900	50-60-100-150	Bright	....	.70	.63	.65	.61
1200	75	Bright	....	.70	.63	.65	....
2700	150	Bright	....	.70	.63	.65	....

Extra Turns Per Inch

75	30	Bright	6-Turns	$1.37	$1.32	$1.17	$1.17	$ ....
100	40	Bright	6-Turns	1.24	1.19	1.10	1.10	1.02
150	40	Bright	6-Turns	1.09	1.04	.84	.84	.82
200	44	Bright	6-Turns	....	.95	.90	.90	....
300	15	Bright	5-Turns	....	....	.80	.80	....
300	44	Bright	4.3-Turns	....	....	.70	....	.68
300	44	Bright	6-Turns	.83	.81	.80	.80	.78
300	120	Rayflex	6-Turns	....	....	.87	.87	....
600	30	Bright	5-Turns	....	.78	.76	.76	.74

Rayflex Yarns

75	30	Rayflex	$	$	$1.15	$1.15	$1.06
100	40	Rayflex	....	....	1.00	1.00	.92
150	40-60	Rayflex	....	....	.79	.79	.75
200	75	Rayflex	....	....	.78	.78	.74
300	60-120	Rayflex	....	....	.69	.69	.67
450	120	Rayflex	....	....	.65	.65	.63
600	234	Rayflex	....	....	.65	.65	.63
900	350	Rayflex	....	.72	.65	.65	.63

Thick & Thin Yarns

150	40-90	Bright & Dull	$	$	$1.15	$	$ ....
200	75	Bright & Dull	....	....	1.05	....	....
300	120	Bright & Dull	....	....	.95	....	....
450	100	Bright & Dull	....	....	.89	....	....
490	120	Bright & Dull	....	....	.95	....	....
900	350	Dull	....	....	1.00	....	....
920	120	Bright & Dull	....	....	1.00	....	....

Colorspun Yarns

Denier	Type	Cones/Tubes Beams/Spools
75	Regular Strength	$1.60
100	Regular Strength	1.28
150	Regular Strength	1.11
200	Regular Strength	1.08
300	Regular Strength	1.03
450	Regular Strength	.99
600	Regular Strength	.99
900	Regular Strength	.99
300	High Strength	1.05
900	High Strength	1.00
300	Regular Strength 5-Turns	1.13

Avicron Yarns

Denier	Filament		Cones/Tubes Beams/Spools
1800	100-200	Singles & 2 Ply	$ .68
2700	150-300-980	Singles & 2 Ply	.65

Viscose Filament Yarns

The following material deposit charges are required:

Metal Section Beams	$170.00 each
Metal Section Beam Racks	75.00 each
Metal Tricot Spools—14" flange	30.00 each
21" flange	60.00 each
32" flange	150.00 each
Metal Tricot Spool Racks—14" flange	135.00 each
21" flange	100.00 each
32" flange	75.00 each
Wooden Tricot Spool Crates	20.00 each
Cloth Cake Covers	.05 each

Same to be credited upon return in good condition—freight collect.

Celanese Corp. of America

Current Prices

Effective July 24, 1958

Viscose Rayon Filament Yarn Prices
Bright and Dull

Denier/Fil./Twist		Beams	Cones	Cakes
75/30/3			1.03	.91
100/40/2Z		.90		
100/40/3			.89	.81
100/40/5			.95	.85
100/60/2Z			.89	
100/60/3			.91	.83
125/40/2Z		.86		
125/40/3			.87	.78
150/40/0	NS		.68½	
150/40/2Z	NS	.75		
150/40/3			.73½	.70
150/40/5			.84	.82
150/40/8			.90	.88
150/90/0	NS		.71½	
250/60/0			.68	
250/60/3			.74	.71
300/50/0	NS		.64	
300/50/2Z	NS	.66		
300/50/3			.64½	.63
450/120/0	NS		.61	

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A. east of the Mississippi River. Shipments west of the Mississippi will be made on a collect freight basis and allowance will be made for the lowest transportation cost to the point of river crossing.

Prices subject to change without notice.

All previous prices withdrawn.

• No transportation allowed (F.O.B. shipping point).

Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

Effective with orders July 25, 1958

Bright and Dull

Den.	Fil.	Turns/ Inch Up to		Beams	Cones (A) Tubes	Cakes
40	20	3	Textile "Cordora"•		$1.90	$1.85
50	20	3			1.63	
50	20	3	Textile "Cordura"		1.65	1.60
50	35	3	Textile "Cordura"		1.70	1.65
75	10	3	Bright			.95
75	30	3		1.07	1.07	.95
100	15	3	Bright			.83
100	40	3	Bright	.91	.91	.83
100	60	3	Dull		.93	.85
125	50	3		.89	.89	.80
150	40	3		.76	.76	.72
150	60	3	Bright	.76	.76	
150	60	3	Textile "Cordura"		.815	.785
150	90	3	Dull		.77	
150	100	3	Dull		.77	
300	50	2.5		.67	.67	.65
300	120	3	Textile "Cordura"	.68	.68	.66
450	72	3		.65	.63	.61
600	96	3	Bright	.65	.63	.61
600	240	3	Textile "Cordura"	.66	.64	
900	50	3	Bright	.65	.63	.61
900	144	3	Bright	.65	.63	.61
1165	480	3	Textile "Cordura"	.66	.64	.62
1800	100	3	Bright		.63	
2700	150	3	Bright	.65	.63	

Thick and Thin

100	40	3	#7 Bright		1.38	
150	90	3	#7 Bright		1.05	
200	80	3	#7 Bright		1.05	
450	100	3	#7 Bright		.89	
1100	240	3	#60 Bright		1.00	
2200	480	3	#60 Bright		.95	

Monofils

150	1	3	Bright	1.35	1.35
300	1	3	Bright	1.15	1.10
600	1	3	Bright		1.00

Plush

300	30	3	Dull	.79	.75

(A) 2¢/lb. additional for cones less than 3#.

Terms: Net 30 days.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.

• "CORDURA" and "SUPER CORDURA" are Du Pont's registered trade-marks for its high tenacity rayon yarn.

Industrial Rayon Corp.

Effective July 29, 1958

Continuous Process Textile Yarns

Denier	Filament	Turns per In.	Type	2.8 Lb Cones	4.4 Lb Cones and Tubes	Beams	2.2 Lb Tubes
100	40	2.5 "S"	Bright	.91		.91	
150	40	2.5 "S"	Bright	.76		.76	
150	40	2.5 "S"	Luster #4	.77		.77	
150	40	2.5 "S"	Bright Intermediate strength	.77			
200	20	2.5 "S"	Bright	.75			
300	44	2.5 "S"	Bright	.67		.67	
450	60	2.0 "S"	Bright		.63	.63	
600	90	1.5 "S"	Bright		.63	.63	.63
900	50	2.0 "S"	Bright		.63	.63	.63
900	150	1.5 "S"	Bright		.63	.63	.63
1100	480	2.0 "Z"	Bright extra strong		.65	.65	.65

Lustre #4 is semi-dull.

Terms: Net 30 days f.o.b. point of shipment; title to pass to buyer on delivery of goods to carrier. Domestic transportation charges prepaid with transportation allowed at lowest published rate to all points east of the Mississippi River.

Prices are subject to change without notice.

North American Rayon Corp.

Current Prices

Prices Effective July 25, 1958

First Quality Yarns	Den/Fil	Twist	Knitting* Cones	Cones: No Twist Knitting Cones	Cones: Weaving Cones Beams, Tubes**	Velvet Beams & Cones	Uncreated Cakes
	75/30	3.5			1.07	1.07	.95
	75/30	7			1.20	1.20	
	75/30	12			1.28	1.28	
Normal	75/30	15			1.30	1.30	
Strength Yarns	75/30	20			1.33	1.33	
NARCO	100/40/60	3.5			.91	.91	.83
	100/40	12			1.15	1.15	
	125/52/60	3			.89	.89	.80
	150/42	0		.68½			
	150/42/60	3	.74½		.76	.78	.72
	300/75	0		.65			.65
	300/75	3	.67		.67		.65
	900/46	2.5	.63		.63		
	1800/92	2.5	.63		.63		

• Oiled Cones $.01 Per Pound extra for Graded Yarns only.

•• 1 lb. tubes $.02 Per Pound extra for Graded Yarns only.

Terms: Net 30 days, F.O.B. shipping point, minimum freight allowed to consignee's nearest freight station east of the Mississippi River. To points west of the Mississippi River minimum freight to Memphis, Tennessee allowed. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold F.O.B. delivery point.

Prices subject to change without notice.

RAYON HIGH TENACITY YARN and FABRIC

American Enka Corp.

Effective June 1, 1957

Tempra (High Tenacity)

Denier	Elongation	Beams & Cones
1100/480	Low	.59
1230/480	High	.59
1650/720	Low	.55
1820/720	High	.55
2200/960	High & Low	.54

Suprenka I (Extra High Tenacity)

1650/720	Low	.58
1900/720	High	.58
2200/960	Low	.57

Suprenka II

1100/720	Low	.63
1650/1100	Low	.58
2200/960	High	.57

Terms: Net 30 days, f.o.b. Enka, North Carolina, or Lowland, Tennessee; minimum freight allowed to first destination east of the Mississippi River.

American Viscose Corp.

Effective Nov. 1, 1956
Revised May 29, 1958

Super "Rayflex"

Denier	Filament	Twist	Beams	Cones-Tubes*
1100	980	0	.63	.63
1100	980	Z	.63	—
1650	980	0	.58	.58
1650	980	Z	.58	—
1780	980	0-Z	—	.58
2200	980	0	.57	.57

Tire Yarn

1100	490	Z	.59	—
1650	980	0	.55	.55
1650	980	Z	.55	—
2200	980	0	.54	.54

High Strength

1150	490	Z	.59	.59
1230	490	Z	.59	.59
1650	980	Z	.55	.55
1875	980	Z	.55	.55
2200	980	Z	.54	.54

* When tube put up—10# spinning tube.
First quality yarns are sold "Not Guaranteed for Dyeing".

Tire Fabric

	Tire Yarn Fabric	Super "Rayflex" Fabric
2200/980/2	.625	.655
†1100/490/2	$.71	$.75

Above prices based on 80% minimum Carcass, 15% maximum Top Ply, 5% maximum Breaker.

1650/980/2

*Production Factor			
525-Open	Carcass	$.635	$.665
300-490	Top Ply	.645	.675
115-275**	Breaker	.67	.70

* Determined by dividing total ends by picks.
** Orders limited to 5% of total 1650 Fabric booked for any given period.
† Revised.
Cord on cones in regular Tire Yarn twists same as fabric prices.
Other twist combinations—prices quoted on request.
When supplied, yarns and cords in special packages take premiums indicated.

10.5 oz. Wardwell tubes	.05
1.5 lb. Regular Braider tubes	.035
Adhesive Dipped yarn	.05

The following deposit charges are made on invoices.

Beams	$55.00 each
Crates (Metal)	75.00 each
Fabric Shell Rolls	3.50 each

Same to be credited upon return in good condition—freight collect.
Terms: Net 30 days.

Celanese Corporation of America

Effective December 27, 1955
Supersedes September 12, 1955

Fortisan Yarn Prices

Denier	Packages	Natural	Black
30/2.5/40	2 lb. Cones	$3.00 lb.	$3.35 lb.
60/2.5/80	4 " "	2.40 "	2.75 "
90/2.5/120	4 " "	2.25 "	2.60 "
120/2.5/160	4 " "	2.05 "	2.40 "
150/2.5/180	4 " "	1.95 "	2.30 "
270/2.5/360	4 " "	1.85 "	2.20 "
300/2.5/360	4 " "	1.85 "	2.20 "
60/2.5/80 Olive Green—Spun Dyed—OG106	4 lb. Cones		3.50 lb.

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A. east of the Mississippi River. Shipments west of the Mississippi will be made on a collect freight basis and allowance will be made for the lowest transportation cost to the point of river crossing.
Prices subject to change without notice.
All previous prices withdrawn.
* No transportation allowed (F.O.B. shipping point).
Prices on unlisted items can be obtained upon request.
Orders are subject to conditions of sale appearing on our acknowledgments of orders.

Fortisan-36 Rayon Yarn
Bright

Denier and Filament	Twist	4# cones	8# cones	Tubes	Beams
270/280	0.8Z	$2.30			
300/280	0.8Z	$2.05			
300/280	3Z	$2.20			
400/400	0.8Z	$1.75			$1.70
400/400	0			$1.75	
800/800	0.8Z	$1.25	$1.25		$1.20
800/800	3Z	$1.40			
800/800	0			$1.25	
1600/1600	0.8Z	$1.15	$1.15		$1.10
1600/1600	2½Z	$1.30			
1600/1600	0			$1.15	

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A. east of the Mississippi River. Shipments west of the Mississippi will be made on a collect freight basis and allowance will be made for the lowest transportation cost to the point of river crossing.
Prices subject to change without notice.
All previous prices withdrawn.
* No transportation allowed (F.O.B. shipping point).
Prices on unlisted items can be obtained upon request.
Orders are subject to conditions of sale appearing on our acknowledgments of orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.
Current Prices
Effective with orders May 2, 1958

"Super Cordura"*

Den Fil	Turns/in	All Packages
1100-720	2	$.63
1200-720	2	.63
1530-960	2	.61
1600-960	2	.58
1650-1100	2	.58
1800-1100	2	.58
2200-1440	2	.57
2400-1440	2	.57

Terms: Net 30 days.
Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.
* "CORDURA" and "SUPER CORDURA" are DuPont's registered trade-marks for its high tenacity rayon yarn.

Industrial Rayon Corporation

Effective July 29, 1958

Tiaralon Yarns

Denier	Filament	Turns Per In.	Type	4.4 lb. Cones
450	1	0	Bright and Dull	1.00
450	1	2	Bright and Dull	1.00
1250	1	0	Bright and Dull	1.00
1250	1	2	Bright and Dull	1.00

Tubes— 5¢ per pound over cone prices.
Skeins—10¢ per pound over cone prices.
Terms: Net 30 days f.o.b. point of shipment; title to pass to buyer on delivery of goods to carrier. Domestic transportation charges prepaid with transportation allowed at lowest published rate to all points east of the Mississippi River.
Prices are subject to change without notice.

North American Rayon Corporation

Super High Strength Continuous Yarn Types 550-552		**Cones**	**Beams**
1650/720	1.5Z	.58	.58
Super Super High Strength Continuous Yarn Type 630			
1100/720	2.5Z	.63	.63
1650/720	2.0Z	.58	.58
Tire Cord Fabrics			
Super High Strength Type 550			**Rolls**
1650/720			.66½
Super Super High Strength Type 630			
1100/720			.75
1650/720			.66½

* Oiled Cones $.01 per pound extra for Graded Yarns only.
** 1 lb. Tubes $.02 per pound extra for Graded Yarns only.

Terms: Net 30 days, f.o.b. shipping point. Minimum freight allowed to consignee's nearest freight station East of the Mississippi River. To points West of the Mississippi River minimum freight to Memphis, Tenn. allowed. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates if sold f.o.b delivery point.

ACETATE FILAMENT YARN

American Viscose Corp.

Current Prices
Effective December 21, 1956

Bright and Dull

* Intermediate Twist

Denier & Filaments	Cones & 4-6 Lb. Tubes	Twister Tubes	Warps	Spinning Cones	Twist Warps
55/14	$1.04	$1.02	$1.05	$.98	$.99
75/20	1.00	.98	1.01	.94	.95
100/28	.95	.93	.96	.89	.90
120/32	.86	.84	.87	.80	.81
150/41	.77	.76	.78	.72	.73
200/54	.73	.72	.74	.69	.70
300/80	.69	.68	.70	.65	.66

* Standard Twist 2¢ additional.
Terms: net 30 days.

Celanese Corp. of America

Current Prices
Effective December 20, 1956

News (Continued from Page 113)

Milton J. Greene has been named director of Hart Products Corp.'s Textile Resin Division and **Thomas H. Hart** has been appointed director of customer service and sales research for the marketing of Larvatex, the company's new mothproofing agent.

Ben W. Wiesen has become a sales and merchandising representative for Creslan acrylic fiber to the knit goods field at American Cyanamid Co.'s Fibers Division.

J. Kaner

Jay Kaner has become manager of advertising and sales promotion at American Enka Corp. succeeding **Kenneth N. Bacon,** who has joined Anderson & Cairns, Inc. In Enka's Industrial Sales Department **Paul E. Dochety** has become technical sales representative.

Charles K. Everett has been appointed to the newly created post of director of field services at the American Institute of Men's and Boys' Wear.

W. B. Yarborough

Cortez P. Hackett has been appointed director of research and development for the Solvay Process Division of Allied Chemical Corp. In the company's National Aniline Division, **William B. Yarborough** has been appointed assistant to the president.

John A. Leddy has joined Geigy Dyestuffs Division of Geigy Chemical Corp. to take charge of application research in synthetic fiber dyeing and finishing.

Robert J. Kingsley has been named to the newly-created post of general sales manager for the Pacific Division of Nopco Chemical Co.

John David Barnhardt has joined the sales staff of Barnhardt Elastic Corp.

Dr. J. E. Killinger has been named director of technical sales service and field development at Penick & Ford, Ltd., Inc. and **John Bainbridge** has become his administrative assistant. In the company's textile division, **G. M. Anderson** has become assistant director of technical sales service, and in the food division **Edward Popper** has become manager of technical sales service. In the paper and food divisions at the New York office of Penick & Ford **O. R. Steffens** has been named manager and **P. J. Shirley,** assistant manager of the eastern technical sales service.

(Continued on Page 119)

G. M. Anderson Dr. J. E. Killinger

"13¾" and 21" diameter heads

MILTON BEAMS*
(for Nylon and rubber yarns)
GIVE YOU THE BIG BONUS OF

SUPER STRENGTH

The super strength of Milton's forged head Tricot and Raschel Beams is no idle claim—it's been proven by yarn producers, big mills and small mills alike!

They're light in weight, yet rugged in design to give true dimensional stability without objectionable deflection or distortion. Milton's forged, heat-treated aluminum alloy heads and extra heavy barrels become a one-piece beam by the continuous weld process first introduced in the field by Milton. Trapped ends of yarn or misalignment of keyways are eliminated because there are no mechanical joints!

You name the yarn . . . monofilament, fine denier, low turn or high twist—synthetics or rubber, Milton gives you true-running, well balanced beams to handle unprecedented yardages and extreme pressures!

WRITE FOR FREE BULLETINS . . . No. 49-A on Light Metal Beams and No. 54-S on Steel Beams. The Milton line includes warp beams for broad, narrow fabric, velvet and carpet looms, as well as light metal raschel, tricot and section beams.

Over a Quarter Century of Dependability in Yarn Beams

MILTON MACHINE WORKS, INC.

DESIGNERS • ENGINEERS • MANUFACTURERS

MILTON · PENNA.

Bright and Dull

Denier and Filaments	Intermediate Twist 4 & 6-Lb Cones	Beams	4 & 6-TM Tubes	Spinning Twist 4-Pound Cheeses	Cones	Beams	0 Twist Tubes
45/13	$1.17	$1.18	$	$	$	$1.12	$ ....
55/15	1.04	1.05	....	....	.98	.99	.925
75/20	1.00	1.01	.98	....	.94	.95	.84
75/50	1.02	1.03	1.00	....	....	.97	.89
100/26-40	.95	.96	.93	....	.89	.90	.81
120/40	.86	.87	.85	....	.80	.81	....
150/40	.77	.78	.77	.77	.72	.73	.69
200/52	.73	.74	.73	....	.69	.70	....
300/80	.69	.70	.69	....	.65	.66	.63
450/120	.67	.68	.67	....	.63	.64	....
600/160	.65	.66	.65	....	....	....	....
900/80-240	.63	.64	.63	....	....	....	.61

150 Denier 12-TM Tubes ..... .76
55/0/15 Dull Tricot Beams ..... .985
2-Pound Cheeses ..... .01 Less Than 4-Pound Cheeses
2-BU and 4-Bu Tubes ..... Same Price as 4 and 6-Lb. Cones
2-Lb. Twist Tubes ..... .01 Less Than 4 & 6-Lb. Twist Tubes on 120, 200 and 300 Denier Intermediate Twist

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A. east of the Mississippi River. Shipments west of the Mississippi will be made on a collect freight basis and allowance will be made for the lowest transportation cost to the point of river crossing.

Prices subject to change without notice.

All previous prices withdrawn.

* No transportation allowed (F.O.B. shipping point).

Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

Celaperm Filament Yarn Prices

Denier and Filaments	Intermediate Twist 4 & 6-Lb. Cones	Beams	Spinning Twist Cones	Beams
55/15	$1.37	$1.38	$1.31	$1.32
75/20	1.34	1.35	1.28	1.29
100/26	1.28	1.29	1.22	1.23
120/40	1.19	1.20	1.13	1.14
150/40	1.11	1.12	1.06	1.07
200/52	1.05	1.06	1.01	1.02
300/80	1.01	1.02	.97	.98
450/120	.99	1.00	.95	.96
600/160	.97	.98	....	....
900/80	.94	....	....	....

3 to 5 Turns on Cones or Beams — $.02 Additional

Celaperm Black Yarn Prices

Effective March 11, 1955

Denier and Filaments	4 & 6-Lb. Intermediate Twist Cones	Beams	Spinning Twist Cones	Beams
55/15	$1.17	$1.18	$1.11	$1.12
75/20	1.14	1.15	1.08	1.09
100/26	1.08	1.09	1.02	1.03
120/40	.99	1.00	.93	.94
150/40	.91	.92	.86	.87
200/52	.85	.86	.81	.82
300/80	.81	.82	.77	.78
450/120	.79	.80	.75	.76
600/160	.77	.78	....	....
900/80	.74	....	....	....

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. East of Mississippi River. Transportation prepaid to any U.S.A. destination West of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

Arnel Triacetate Yarn Prices
Bright & Dull

Effective August 19, 1958

Supersedes April 18, 1958

Denier and Filaments	Cones	Beams	Thick and Thin Cones
55/WKZ/15	$	$1.10	$ ....
55/2Z/15	1.26	1.27	....
75/WKZ/20	....	1.16	....
75/2Z/20	1.21	1.22	....
100/2Z/26	1.14	1.15	....
150/2Z/40	.95	.96	....
200/2Z/52	.92	.93	1.25
300/2Z/80	.87	.88	1.23
450/2Z/120	.86	.87	....
600/2Z/160	.85	.86	1.21

3 to 5 Turns on Cones or Beams—$.02 Additional
Premium for Black Arnel—$.25 Per Pound
Premium for Navy Arnel—$.37 Per Pound

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. East of Mississippi River. Transportation prepaid to any U.S.A. destination West of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

Acetate

Denier & Filament	Zero Twist Tubes	Beams	Low Twist Cones	Beams	Intermediate Twist 2 & 4 Lb. ⅝" Tbs.	4 & 6 Lb. Tw. Tbs.	Cones	Bms.
45-13	$1.03	$1.11		$1.12				
55-18	.925	.985		.99			$1.04	$1.05
55-24	.925	.985		.99			1.04	1.05
75-24	.84	.94		.95		$.98	1.00	1.01
75-50				.97		1.00	1.02	1.03
100-32	.81	.89		.90		.93	.95	.96
120-50	.77	.80		.81		.85	.86	.87
150-40	.69	.72	.72	.73	.77	.77	.77	.78
200-60	.68		.69	.70	.73	.73	.73	.74
240-80			.67				.71	
300-80	.63	.65	.65	.66	.69	.69	.69	.70
450-120	.63		.63	.64	.67	.67	.67	.68
600-160					.65		.65	.66
900-44					.63		.63	.64
900-240					.63		.63	.64
1800-88					.61		.61	.62
2700-132					.61		.61	.62
3000-210					.61			.62

(A) Regular Twist (2.9 and 5 T.P.I.)—add $.02 to Intermediate Twist Price.

(B) 1 lb. ⅜" Tubes—add $.02 to 2 & 4 lb. ⅝" Tube Price.

Color-Sealed

Denier & Filament	Zero Twist Tubes	Beams	Low Twist Cones	Beams	Intermediate Twist Twisted Tubes 2 Lb.	4 & 6 Lb.	Cones	Beams
55-18	$1.245	$1.315		$1.32	$1.35	$1.35	$1.37	$1.38
75-24	1.18	1.28		1.29	1.32	1.32	1.34	1.35
100-32	1.14			1.23	1.26	1.26	1.28	1.29
150-40	1.03	1.06	1.06	1.07	1.10	1.11	1.11	1.12
200-64	1.00		1.01	1.02	1.04	1.05	1.05	1.06
300-80	.95	.97	.97	.98	1.00	1.01	1.01	1.02

(A) Regular Twist—Add $.02 to Intermediate Twist Price.

Black

Denier & Filament	Zero Twist Tubes	Beams	Low Twist Cones	Beams	Intermediate Twist 2 & 4 Lb. ⅝" Tbs.	4 & 6 Lb. Tw. Tbs.	Cones	Beams
55-18	$1.045	$1.115		$1.12		$1.15	$1.17	$1.18
75-24	.98	1.08		1.09		1.12	1.14	1.15
100-32	.94			1.03		1.06	1.08	1.09
150-40	.83	.86	.86	.87		.91	.91	.92
200-60	.80		.81	.82		.85	.85	.86
300-80	.75	.77	.77	.78	.81	.81	.81	.82
450-120			.75	.76	.79	.79	.79	.80
600-160			.73	.74	.77	.77	.77	.78
900-240			.73	.74	.74	.74	.74	.75

(A) Regular Twist (2.9 and 5 T.P.I.)—add $.02 to Int. Twist Price.

(B) 1 lb. ⅜" Tubes—add $.02 to 2 & 4 lb. ⅝" Tube Price.

Specialty Yarns

Type 20 — Same Price as Regular Yarn

Type C — Same Price as Regular Yarn

Thick & Thin

Denier & Filament	Natural Cones	Beams	Black Cones	Beams	Color-Sealed Cones	Beams
200-64 Int. Twist	1.05		$1.15		$1.35	
200-64 Reg. Twist	1.08	$1.09	1.17	$1.21		

Terms: Net 30 days. Subject to change without notice.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.

Eastman Chemical Products, Inc.

Tennessee Eastman Co.

Effective December 21, 1956

"Estron"* Yarn, Bright or Dull — White

Denier & Filament	Regular Twist Cones	Intermediate Twist Cones	Tubes	Beams	Low Twist Cones	Beams	Zero Twist Tubes	Tricot Beams Spun Twist	Zero Twist
55/13	$1.06	$1.04	$1.02	$1.05	$.98	$.99	$.92½	$.99	$.98½
75/19	1.02	1.00	.98	1.01	.94	.95	.84	.95	....
75/49	1.04	1.02	....	1.03	....	....	....	....	....
100/25	.97	.95	.93	.96	.89	.90	.81	....	....
120/30	.88	.86	.84	.87	.80	.81	....	....	....
150/38	.79	.77	....	.78	.72	.73	.69	....	....
200/50	.75	.73	....	.74	.69	.70	....	....	....
300/75	.71	.69	....	.70	.65	.66	.63	....	....
450/114	.69	.67	....	.68	.63	.64	....	....	....
600/156	.67	.65	....	.66	.62	.63	.63	....	....
900/230	.65	.63	....	.64	....	....	.61	....	....
Heavier	....	....	....	....	....	....	.56	....	....

Current Prices—December 19, 1955

"Chromspun"*—Standard Colors (Except Black)

Denier & Filament	Regular Twist Cones	Beams	Intermediate Twist Cones	Beams	Low Twist Cones	Beams
55/13	$1.39	$1.40	$1.37	$1.38	$1.31	$1.32
75/19	1.36	1.37	1.34	1.35	1.28	1.29
100/25	1.30	1.31	1.28	1.29	1.22	1.23
150/38	....	....	1.11	1.12	1.06	1.07
300/75	....	....	1.01	1.02	.97	.98
450/114	....	....	.99	1.00	.95	.96
900/230	....	....	.94	.95	....	....

Current Prices

Eugene J. Wollschlager has assumed the position of administrative assistant to the president of Robinette Research Laboratories, Inc.

H. J. G. Frost

Herbert J. G. Frost has been appointed assistant general manager of Sun Chemical Corp.'s chemical group.

F. G. Gronemeyer

F. G. Gronemeyer has been elected vice president of the Chemstrand Corp.

P. G. Rotko

Peter G. Rotko has joined the Textile Fibers Department of Union Carbide Chemicals Co., division of Union Carbide Corp.

L. G. Wrigley

Leslie G. Wrigley has been appointed sales manager of automotive sales for the textile division of United States Rubber Co. and **Benjamin E. Ferguson** has been named product development manager of automotive sales in the same division.

Deaths

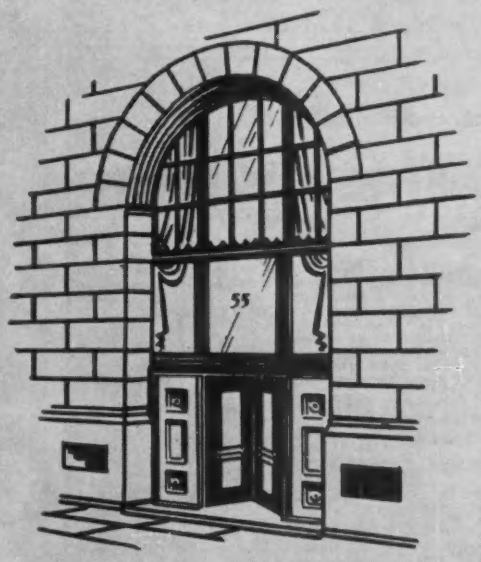
Elvin B. Robinson, vice president and general sales manager of Ideal Machine Shops, Inc. and Ideal Industries, Inc., Bessemer City. He died at the age of 57.

Dr. Ernest K. Gladding, 69, died on July 16. He was formerly head of the nylon division of the Du Pont Co. He retired in 1951 after 34 years with the company.

Dr. W. Hale Charch, 60, of the Du Pont Co. died on July 25 following a stroke. Dr. Charch joined Du Pont in 1925 following the receipt of his doctorate degree in physical chemistry from Ohio State University. He led the research group which developed moisture-proof cellophane in 1927. He was closely identified with the early pioneering work on Du Pont's Orlon acrylic fiber and Dacron polyester fiber. He also did pioneering research on Du Pont's new synthetic elastomer textile fiber, "Fiber K." At his death he was director of the company's Pioneering Research Laboratory.

Our service is tailored to provide all the working capital any qualified client needs, without increased borrowing, diluting profits or interfering with management.

Information available for any manufacturer or distributor with $500,000 or more annual sales.



Textile Banking Company

55 Madison Avenue, New York 10, N.Y.

Providing operational financing for the apparel, electronics, furniture, leather, plastics and textile industries.

Subsidiaries:

T. B. C. Associates, Inc., New York Southwest Texbanc, Inc., St. Louis

"Chromspun"*—Black

Denier & Filament	Regular Twist Cones	Intermediate Twist Cones	Intermediate Twist Beams	Low Twist & Spun Twist Beams
55/13	$1.19	$1.17	$1.18	$1.12
75/19	1.16	1.14	1.15	1.09
100/25	1.10	1.08	1.09	1.03
150/38	.93	.91	.92	.87
200/50	.87	.85	.86	.82
300/75	.83	.81	.82	.78
450/114	.81	.79	.80	.76
900/230	.76	.74	.75	....

Prices are subject to change without notice.
Prices on special items quoted on request.
Terms: Net 30 days. Payment—U. S. A. dollars.
Transportation charges prepaid or allowed to destination in the United States east of Mississippi River. Seller reserves right to select route and method of shipment. If Buyer requests and Seller agrees to a route or method involving higher than lowest rate Buyer shall pay the excess of transportation cost and tax.
* "Estron" and "Chromspun" are trade-marks of the Eastman Kodak Co.

RAYON STAPLE and TOW

American Viscose Corp.

Current Prices

Rayon Staple

	Bright and Dull
Regular	$ .31
"Viscose 22"	.31
Extra Strength	
1.0 Denier	.34
"Viscose 32A"	.36
"Avisco XL"	
1.0 & 1.5 Deniers	.40
"Avisco Crimped"	
1.25 Denier	.34
3.0 & 5.5 Deniers	.32
8.0 & 15.0 Deniers	.34
"Avisco Super L"	
8.0, 15.0 & 22.0 Deniers	.35
Short Staple Blend	.33

Rayon Tow

Grouped Continuous Filaments (200,000 Total Denier)	
1.5, 3.0 & 5.5 Denier Per Filament	.33
9.0 Denier Per Filament	.35
Grouped Continuous Filaments (4400/300 & 2000/1500)	.65

Prices of other descriptions on request.
Terms: Net 30 days.

American Enka Corp.

Current Prices Effective 1/1/58

Rayon Staple

Regular

	Brt.	Dull
1.5 and 3 denier	$ .31	$ .31

Crimped

8 denier	.34	....
15 denier	.34	.34

Celanese Corp. of America

Current Prices
Effective Dec. 3, 1957

Rayon Tow

	Bright & Dull
1.5, 3, 5.5 D.P.F. Total denier 200,000	.33
8 D.P.F. Total denier 207,000	.35

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. East of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.
Prices subject to change without notice.
All previous prices withdrawn.
Note: Prices on unlisted items can be obtained upon request.
Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

Courtaulds (Alabama) Inc.

Effective March 7, 1958

Rayon Staple

	Bright	Dull
1½ and 3 denier	$.31	$.31
Available in 1⅛", 1-9/16" and 2".		

Crimped Rayon Staple

3 and 5½ denier	$.32	$.32
Available in 1-9/16" and 3".		
3 denier		.32
Available in 2".		

"Coloray" Spun Dyed Rayon Staple

	1½ Den. 1-9/16"	3 Den. 2"	Price per Lb.
	(Code numbers for color and denier)		
Black	1404	1419	37¢
Tan	8004	8019	39¢
Medium Brown	8804	8819	39¢
Silver Grey	1004	1019	39¢
Mocha	7704	7719	39¢
Spicenut	7804	7819	39¢
Dark Brown	8604	8619	40¢
Aqua	4704	4719	40¢
Rose	5804	5819	40¢
Dawn Pink	5904	5919	40¢
Ecru	7904	7919	40¢
Slate Grey	0804	0819	43¢
Light Blue	4004	4019	44¢
Sulphur	2004	2019	44¢
Nugget	2304	2319	44¢
Apple Green	5104	5119	45¢
Sage	5304	5319	45¢
Crystal Blue	3904	3919	45¢
Peacock Blue	4604	4619	46¢
Medium Blue	4204	4219	48¢
Dark Blue	4404	4419	49¢
Hunter Green	5404	5419	49¢
Indian Yellow	2504	2519	49¢
Pink	6004	6019	50¢
Turquoise	4804	4819	50¢
Malachite Green	5204	5219	51¢
Red	7004	7019	56¢

(In addition to the above, Black is also available in:
1½ den. 1⅛" (1401) 3 den. 1-9/16" (1416)
3 den. 1⅛" (1413) 5½ den. 3" (1429)

"CORVAL" Man-made, cross-linked, cellulosic staple, Bright and Dull, Regular 1½ and 3 denier	$.40 per lb.
"CORVAL" Man-made, cross-linked, cellulosic staple, Bright and Dull, Regular and Crimped, all standard denier up to and including 15	$.40 per lb.
"TOPEL" Man-made, cross-linked, cellulosic staple, Bright and Dull, Regular 1½ and 3 denier	$.34 per lb.

Terms: Net 30 days f.o.b. LeMoyne, Alabama; Minimum transportation allowed to points in U.S.A. east of Mississippi River.

The Hartford Rayon Co.

Div. Bigelow-Sanford Carpet Co., Inc.

Rayon Staple

Effective January 1, 1958

REGULAR

1.5 denier Bright 1½"	.31
5½ denier Bright 1½", 3" and 4½"	.32
VISCALON 66 (Crimped)	
8 denier 3" Bright	.34
15 denier 3" Bright	.34
15 denier 3" Dull	.34

"KOLORBON"—Solution Dyed Rayon Staple—3" and 6"

	8 Denier Bright	15 Denier Dull	15 Denier Bright
Cloud Grey	45¢	45¢	....
Sandalwood	45¢	45¢	....
Nutria	45¢	45¢	....
Sea Green	45¢	45¢	....
Mint Green	45¢	45¢	....
Champagne	45¢	45¢	....
Cafe Brown	55¢	....	55¢
Midnight Black	45¢	....	45¢
Gold	48¢	48¢	....
Turquoise	45¢	45¢	....
Melon	48¢	48¢	....
Capri Blue	45¢	45¢	....
Charcoal Grey	45¢	45¢	....
Coco	46¢	46¢	....
Sable	47¢	....	47¢
Tangerine	58¢	....	58¢
Chinese Red	59¢	....	59¢
Larkspur Blue	45¢	45¢	....
Royal Blue	55¢	....	55¢
Lemon Peel	46¢	46¢	46¢
Kelly Green	46¢	46¢	46¢
Bitter Green	55¢	....	55¢

Terms: Net 30 days. Prices are quoted f.o.b. shipping point, lowest cost of transportation allowed, or prepaid. To points West of the Mississippi, lowest cost of transportation allowed to the Mississippi River crossing.

North American Rayon Corporation

Current Prices

Rayon Staple

High Tenacity	Bright
No. 1 (Unshrunk)	
1, 1.5 & 3 deniers	.40
No. 2 (Preshrunk)	
1, 1.5 & 3 deniers	.40

Rayon Tow

2200 denier, 1.0 and 1.5 D/F	57.5
4400 denier, 1.0 and 1.5 D/F	47.5

ACETATE STAPLE and TOW

Celanese Corp. of America

Current Prices
Effective March 17, 1958
(Most Deniers Available in Bright or Dull Luster)

Staple

Celanese Acetate Staple	
2, 3, 5.5, 8, 12 & 17 Denier (Regular Crimp, Type HC, Type D)	$.36
35 Denier	.38
50 Denier	.40
Type F—5.5, 8, 12, 17 Denier	.35
Type K—(Available under Celanese License Agreement)	.39
⅝" to ⅞" length (All Deniers)	.03 (Premium)
35 Denier Flat Filament Acetate	.40
Non-Textile Acetate Fibers	.28*

Tow (Celatow)

2, 3, 5.5, 8, 12 & 17 Denier	$.37
35 Denier	.40
50 Denier	.42

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. east of Mississippi River. Transportation prepaid to any U.S.A. destination west of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.
Prices subject to change without notice.
All previous prices withdrawn.
* No transportation allowed (F.O.B. shipping point.)
Note: Prices on unlisted items can be obtained upon request.

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Apparel Fabric Trend

The trend in apparel fabrics is slowly shifting away from the 100% synthetic, according to Albert Silverman, assistant vice president, Commercial Factors Corp. Expressing the opinion that in the last few years a truce had set in between natural and man-made fibers, Silverman said a balance of 52% natural and 43% synthetics has been established, while the remaining 5% was spread among blended fabrics and wool goods. Two factors causing the shift, however, are a comeback of cotton and silk and the upsurge of blends, he said.

Comparing 1957 with 1956 fabric purchases, Silverman said rayons and acetates last year fell approximately 5%, nylon gained almost 2%, Dacron and Orlon were about unchanged, with blends moving up 2% and cottons rising almost 4%. Many converters, he declared, are of the opinion that "pure synthetics" will have to concede more ground to blended fabrics and possibly to cottons.

The Borregaard Co., Inc.

Norway House, 290 Madison Avenue
NEW YORK 17, NEW YORK

Norwegian Viscose Rayon Staple Fiber

Bright Sūpral Dull

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Orders are subject to conditions of sale appearing on our acknowledgments of orders.

Celanese Corp. of America

Current Prices

Effective March 17, 1958

(Most Deniers Available in Bright or Dull Luster)

Arnel Triacetate Staple and Tow

Arnel Triacetate Staple	Bright & Dull
2.5 Individual Denier	$.55
5.0 Individual Denier	.55
Arnel Triacetate Tow	
2.5 Individual Denier 114,000 Total Denier	$.60
5.0 Individual Denier 90,000 Total Denier or 180,000 Total Denier	.60

Packaged on Ball Warps

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. east of Mississippi River. Transportation prepaid to any U.S.A. destination west of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

NON CELLULOSIC YARN

NYLON

Allied Chemical Corporation

Caprolan®†

Effective May 20, 1958

Denier	Filament	Turn/In.	Twist	Type**	Package	1st Grade Price/Lb.
560	32	1	Z	HB	Aluminum Tube	$1.39
840	136	½	Z	HBT	Aluminum Tube	1.20
840	136	½	Z	HBT	Beams	1.20
Heavy Yarn						
2100	408	0	O	HB	Paper Tube*	$1.18
2100	112	0	O	HB	Paper Tube*	1.20
2500	408	0	O	HB	Paper Tube*	1.18
3360	544	0	O	HB	Paper Tube*	1.17
4200	680	0	O	HB	Paper Tube*	1.17
4200	224	0	O	HB	Paper Tube*	1.19
5000	816	0	O	HB	Paper Tube*	1.17
5000	280	0	O	HB	Paper Tube*	1.19
5800	952	0	O	HB	Paper Tube*	1.17
7500	1224	0	O	HB	Paper Tube*	1.16
10000	1632	0	O	HB	Paper Tube*	1.16
15000	2448	0	O	HB	Paper Tube*	1.16

Terms—Net 30 days.

Prices subject to change without notice.

All prices quoted F.O.B. Shipping Point.

Following are invoiced as a separate item.

Bobbins—45 cents each.

Aluminum Tubes—40 cents each.

Beams—$220.00 each.

Cradles for Beams—$53.00.

B—Bright.
H—High Tenacity.
T—Heat Stabilized.

* Paper Tubes non-returnable, no charge.

** Type is used to describe luster and tenacity

Lowest freight cost prepaid or allowed east of Mississippi River, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.

† Allied Chemical's polyamide fiber.

American Enka Corporation

Enka Nylon Yarn Prices

Effective March 13, 1958

Denier & Filament	Twist	Luster	Tenacity	Package	Yarn Wt. Per Pkg.	Price/Pound Std.	Price/Pound Sub.
15 monofilament	0.5Z	Semi-dull	Normal	Pirn	1 lb.	$5.25	$5.00
15 monofilament	0.5Z	Dull	Normal	Pirn	1 lb.	5.30	5.05
15/2	0.5Z	Semi-dull	Normal	Pirn	1 lb.	7.37	6.70
18/2	0.5Z	Semi-dull	Normal	Pirn	1 lb.	6.65	6.10
20 monofilament	0.5Z	Semi-dull	Normal	Pirn	1 lb.	4.95	4.50
20/2	0.5Z	Semi-dull	Normal	Pirn	1 lb.	5.55	5.05
30/4	0.5Z	Semi-dull	Normal	Pirn	1 lb.	2.62	2.42
30/6	0.5Z	Semi-dull	Normal	Pirn	2 lb.	2.36	2.21
40/8	0.5Z	Semi-dull	Normal	Pirn	2 lb.	2.01	1.81
50/13	0.5Z	Semi-dull	Normal	Pirn	2 lb.	1.91	1.76
200/16	0.9Z	Bright	Normal	Cone	4 lb.	1.49	1.44
200/16	0.5Z	Bright	Normal	Beam	....	1.54	....
200/34	0.9Z	Bright	Normal	Cone	4 lb.	1.49	1.44
200/34	0.5Z	Bright	Normal	Beam	....	1.54	....

Pirns charged at $.25 or $.45 each, depending upon type. Deposit refunded upon return of pirn in good condition. Cones are non-returnable. Beams and cradles are deposit carriers and remain property of American Enka Corporation.

Terms: Net 30 days. Minimum common carrier transportation charges will be pre-paid and absorbed to the first destination on or east of the Mississippi River. In pre-paying transportation charges, seller reserves the right to select the carrier used.

The Chemstrand Corp.

Current Prices

Effective June 2, 1958

Denier	Filament	Twist	Type*	Package	Standard Price/Lb.	Second Price/Lb.
10	1	O	SD	Bobbins	$8.42	$7.81
15	1	O	SD	Bobbins	5.25	5.00
15	1	O	SD	Spools	5.36	....
15	1	O	D	Bobbins	5.30	5.00
15	1	O	D	Spools	5.41	....
20	7	Z	D	Bobbins	2.96	2.61
30	10	Z	SD	Bobbins	2.36	2.21
30	10	Z	D	Bobbins	2.41	2.21
30	10	Z	HSD	Bobbins	2.36	2.21
30	26	Z	SD	Bobbins	2.49	2.21
40	7	Z	SD	Bobbins	2.11	1.81
40	10	Z	SD	Bobbins	2.01	1.91
40	13	Z	SD	Bobbins	2.01	1.91
40	13	O	SD	Draw Wind	2.01	1.91
40	13	Z	SD	Spools	2.11	....
40	13	Z	D	Bobbins	2.06	1.96
40	13	Z	D	Spools	2.16	....
50	17	Z	SD	Bobbins	1.91	1.76
50	17	Z	SD	Draw Wind	1.91	1.76
70	34	Z	SD	Bobbins	1.71	1.66
70	34	O	SD	Draw Wind	1.71	1.66
70	34	Z	SD	Spools	1.81	....
70	34	Z	B	Bobbins	1.71	1.66
70	34	O	B	Draw Wind	1.71	1.66
70	34	Z	D	Bobbins	1.76	1.66
70	34	Z	D	Spools	1.86	....
70	34	Z	HB	Bobbins	1.76	1.66
80	26	Z	SD	Bobbins	1.71	1.56
100	34	Z	SD	Bobbins	1.65	1.60
100	34	Z	SD	Spools	1.75	....
100	34	Z	HB	Bobbins	1.70	1.60
140	68	Z	SD	Bobbins	1.60	1.55
140	68	Z	SD	Spools	1.70	....
140	68	Z	B	Bobbins	1.60	1.55
200	34	Z	B	Bobbins	1.49	1.44
200	34	O	B	Draw Wind	1.49	1.44
210	34	Z	HB	Bobbins	1.49	1.44
210	34	O	HB	Draw Wind	1.49	1.44
210	34	Z	HB	Spools	1.54	....
210	34	Z	HB	Beams	1.54	....
210	34	Z	RHB	Bobbins	1.59	1.54
260	17	Z	HB	Bobbins	1.49	1.39
260	17	Z	HB	Spools	1.54	....
420	68	Z	HB	Bobbins	1.39	1.29
520	34	Z	HB	Bobbins	1.39	1.29
630	102	Z	HB	Bobbins	1.39	1.29
780	51	Z	HB	Bobbins	1.39	1.29
840	140	Z	HB	Beams	1.20	1.10
840	140	Z	HB	Tubes	1.20	1.10
840	140	O	HB	Draw Wind	1.20	1.10
840	140	Z	RHB	Beams	1.20	1.10
840	140	Z	RHB	Tubes	1.20	1.10
1040	68	Z	SD	Tubes	1.24	....
1040	68	Z	HB	Tubes	1.24	....
1680	280	Z	HB	Tubes	1.20	....
2080	136	Z	SD	Tubes	1.20	....
15120	2520	Z	RHB	Tubes	1.16	....

* *Types*: D—Dull; SD—Semi-dull; B—Bright; H—High tenacity.

Bobbins are invoiced at 25¢ or 45¢ each, depending on type; tubes are invoiced at 40¢ each; spools invoiced at $77.00 and $95.00 depending on type; and beams and crates for beams are invoiced at $220 and $25 respectively.

Prices subject to change without notice.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

Nylon Yarn

Denier & Filament	Turns/Inch & Twist	Type	Package	1st Grade	2nd Grade
7-1	0	200	Bobbin	$9.47	$8.82
10-1	0	200	Bobbin	8.42	7.82
12-1	0	200	Bobbin	7.35	6.85
15-1	0	200	Beam	5.36	....
15-1	0	200	Bobbin	5.25	5.00
15-1	0	680	Beam	5.41	....
15-1	0	680	Bobbin	5.30	5.00
20-1	0	200	Bobbin	4.95	4.50
14-2	0.2Z	200	Bobbin	7.90	7.30
17-2	0.2Z	200	Bobbin	7.05	6.50
20-2	0.2Z	200	Bobbin	5.55	5.05
15-3	0.2Z	200	Bobbin	6.10	5.60
21-3	0.2Z	200	Bobbin	5.48	5.05
20-7	0.5Z	200	Bobbin	2.91	2.61
20-7	0.5Z	200	Beam	3.02	....
20-7	0.5Z	680	Bobbin	2.96	2.61
20-7	0.5Z	680	Beam	3.07	....
20-20	0.7Z	209	Bobbin	6.00	....
28-4	0.2Z	200	Bobbin	2.81	2.61
30-10	0.5Z	200	Bobbin	2.36	2.21
30-10	0.5Z	200	Tricot Bms.	2.46	....
30-10	0.5Z	680	Bobbin	2.41	2.21
30-10	0.5Z	680	Tricot Bms.	2.51	....
30-26	0.5Z	200	Bobbin	2.49	2.21
40-1	0	100	Bobbin	4.03	3.75
40-7	0.5Z	200	Bobbin	2.11	1.91
40-13	0.5Z	200	Bobbin	2.01	1.91
40-13	0.5Z	200	Tricot Bms.	2.11	....
40-13	0.5Z	400	Bobbin	2.13	1.90
40-13	0.5Z	680	Bobbin	2.06	1.96
40-13	0.5Z	680	Tricot Bms.	2.16	....
40-34	0.5Z	200	Bobbin	2.21	1.81
50-10	0.5Z	200	Bobbins	2.11	1.76
50-17	0.5Z	200	Bobbin	1.91	1.76
50-17	0	200	Tubes	1.91	1.76
50-17	0.5Z	680	Bobbin	2.01	1.76
60-20	0.5Z	200	Bobbin	1.82	1.65
70-17	0.5Z	200	Bobbin	1.71	1.66
70-34	0	100	Tubes	1.71	1.66
70-34	0.5Z	100/200	Bobbin	1.71	1.66
70-34	0	200	Tubes	1.71	1.66
70-34	0.5Z	280	Bobbin	1.71	1.66
70-34	0.5Z	300	Bobbin	1.76	1.66

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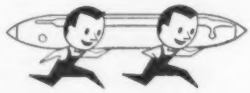

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70-34	0.5Z	680	Bobbin	1.76	1.66
70-34	0	680	Tubes	1.76	1.66
80-26	0.5Z	200	Bobbin	1.71	1.56
90-26	0.5Z	200	Bobbin	1.76	1.66
90-44	0.5Z	200	Bobbin	1.86	1.76
100-34	0.5Z	200	Bobbin	1.65	1.60
100-34	0.5Z	300	Bobbin	1.70	1.60
100-34	0	300	Tubes	1.70	1.60
100-34	0.5Z	680	Bobbin	1.70	1.60
100-50	0.5Z	200	Bobbin	1.71	1.60
140-68	0.5Z	100	Bobbins	1.60	1.55
140-68	0	200	Tubes	1.60	1.55
140-68	0.5Z	200	Bobbin	1.60	1.55
140-68	0.5Z	300	Bobbin	1.65	1.55
200-20	1Z	100	Bobbin	1.49	1.44
200-34	0	100	Tubes	1.49	1.44
200-34	0.7Z	100	Bobbin	1.49	1.44
200-34	0.7Z	680	Bobbin	1.54	1.44
200-68	0.7Z	200	Bobbin	1.56	1.46
210-34	0	300	Tubes	1.49	1.44
210-34	0.7Z	300	Bobbin	1.49	1.44
210-34	0.7Z	300	Beam	1.54	....
210-34	0.7Z	330	Bobbin	1.59	1.44
260-17	1Z	300	Bobbin	1.49	1.39
400-68	0.7Z	100	Bobbin	1.39	1.29
420-68	1Z	300	Bobbin	1.39	1.29
520-34	1Z	300	Bobbin	1.39	1.29
780-51	1Z	300	Bobbin	1.39	1.29
800-140	0.5Z	100	Bobbin	1.39	1.29
840-140	0.5Z	300/700	Al. Tbs	1.20	1.10
840-140	0.5Z	300/700	Beam	1.20	....
1680-280	0.5Z	300/700	Al. Tbs	1.20	1.10
1680-280	0.5Z	300/700	Beam	1.20	....

Color-Sealed Yarn

Denier & Filament	Turns/Inch & Twist	Type	Package	1st Grade	2nd Grade
30-10	0.5Z	140	Bobbin	$2.71	$2.56
40-13	0.5Z	140	Bobbin	2.36	2.16
70-34	0.5Z	140	Bobbin	2.06	2.01
100-34	0.5Z	140	Bobbin	2.00	1.95
100-34	0	140	Tubes	2.00	1.95
200-34	0.7Z	140	Bobbin	1.84	1.79
260-17	1Z	140	Bobbin	1.84	1.79

Industrial Yarn				Price/Lb.
2520-420	0	300/700	Paper Tube	$1.18
4200-700	0	300/700	Paper Tube	1.17
5040-840	0	300/700	Paper Tube	1.17
7560-1260	0	300/700	Paper Tube	1.16
10080-1680	0	300/700	Paper Tube	1.16
15120-2520	0	300/700	Paper Tube	1.16

These prices are subject to change without notice. Terms: Net 30 Days.

Types

Type 100—Bright, normal tenacity.
Type 140—Bright, color-sealed, black, normal tenacity.
Type 200—Semidull, normal tenacity.
Type 209—Semidull, normal tenacity, improved light durability and dye light fastness.
Type 300—Bright, high tenacity.
Type 330—Bright, high tenacity, more heat & light resistant.
Type 400—Semidull, high tenacity.
Type 680—Dull, normal tenacity.
Type 700—Bright, high tenacity.

Freight Terms—Terms are F.O.B. shipping point, freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.

Following are invoiced as a separate item.
Bobbins—25 cents or 45 cents depending on type
Aluminum Tube—40¢ each
Draw Winder Tubes—$.70 or $1.00 depending on type
Tire Cord Beams—$220.00 each
Cradles for Tire Cord Beams—$115.00 each
Tricot Beams—$95.00 each
Cradles for Tricot Beams—$130.00 each
(Beams and Cradles are deposit carriers and remain the property of E. I. du Pont de Nemours & Co., Inc.)

POLYESTER E. I. du Pont de Nemours & Co.

Textile Fibers Dept.
Current Prices

"Dacron"*

Denier & Filament	Turns/Inch	Luster	Type*	Tubes 1st Gr.
30-14	0	Bright	55	$2.81
30-20	0	Semidull	56	2.81
40-27	0	Semidull	56	2.41
40-27	0	Bright	55	2.41
40-27	0	Dull	57	2.46
70-34	0	Semidull	56	2.01
70-14	0	Bright	55	2.01
70-34	0	Bright	55	2.01
70-34	0	Dull	57	2.06
100-34	0	Semidull	56	1.94
140-27	0	Bright	55	1.89
150-34	0	Semidull	56	1.91
220-50	0	Bright	51	1.84
250-50	0	Bright	55	1.86
1100-250	0	Semidull	59	1.50
1100-250	0	Bright	51	1.50

Terms: Net 30 Days.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.

Yarn Types

* Type:
Type 51—Bright, high tenacity.
Type 55—Bright, normal tenacity.
Type 56—Semidull, normal tenacity.
Type 57—Dull, normal tenacity.
Type 59—Semidull, high tenacity.

Tubes are invoiced as a separate item at $.70 each.

* "DACRON" is DuPont's registered trade-mark for its polyester fiber.

SARAN FIBERS

The Saran Yarns Company — Odenton, Maryland

The Hall Company (Selling Agent)
41 East 42 Street, New York 17, N. Y. (Oxford 7-8996)

Current Prices:

CONTINUOUS FILAMENT

Type	Twist p. i.	Natural	Colors
1240/10	3	$1.32	$1.37
750/20*	3	1.75	1.80

* For filter fabrics and other industrial purposes only.
F.O.B. Odenton, Maryland.
Terms: Net 30 days.

NON CELLULOSIC STAPLE & TOW ACRYLIC

The Chemstrand Corp.

Current Prices

"Acrilan"*

Effective October 1, 1957

	Regular Acrilan	Acrilan 16
2.0 denier Semi-Dul and Bright staple & tow	$1.24	$1.24
2.5 denier Hi-Bulk Bright and Semi-dull staple and tow	1.16	1.16
3.0 denier Bright & Semi-dull staple & tow	1.16	1.16
5.0 denier Bright & Semi-dull staple & tow	1.16	1.16
8.0 denier Bright & Semi-dull staple	1.16	1.16
15.0 denier Bright & Semi-dull staple	1.01	1.05

Terms: Net 30 days. Freight prepaid to points east of the Mississippi River.

* "Acrilan" is Chemstrand's registered trademark for its acrylic fiber.

The Dow Chemical Company

Textile Fibers Department
Current Prices

"Zefran"*

2.0 denier Semidull & Bright—Staple only $1.33
3.0 denier Semidull & Bright—Staple only 1.28
6.0 denier Semidull & Bright—Staple only 1.20

Terms: Net 30 days.

Transportation Terms: F.O.B. shipping point—Freight prepaid our route to points east of the Mississippi River within the continental limits of the U. S., for points west of the Mississippi River crossing nearest purchaser's mill if shipped overland or port of exit of purchaser's choice east of the Mississippi River.

* "Zefran" is Dow's registered trademark for its acrylic alloy fiber.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.
Current Prices

"Orlon"** Acrylic Staple & Tow

Type 42	1st Grade
1.0 Denier Semidull & Bright—Staple only	$1.48
2.0 Denier Semidull & Bright	1.33
3.0 Denier Semidull & Bright	1.28
3.0 Denier Semidull Color-sealed Black	1.63
6.0 Denier Semidull & Bright	1.20
6.0 Denier Color-sealed Black	1.55
4.5 Denier Semidull	1.20
10.0 Denier Semidull	1.20

Tow—Total Denier 470,000
Staple Lengths—1½", 2", 2½", 3", 4½"
High Shrinkage Staple same price as Regular Staple

Type 39 $1.06
This product is designed for *woolen system spinning* and is a blend of deniers (average 4.2) with a variable cut length.

Type 39A $1.14
This product is designed for *woolen system spinning* and is a blend of predominately fine deniers (average 2.4) with a variable cut length.

Type 39B $1.01
This product is designed for *woolen system spinning* and is a blend of predominately heavy deniers (average 6.5) with a variable cut length.

F.O.B. Shipping Point—Freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.

Terms: Net 30 Days.

** "ORLON" is DuPont's registered trade-mark for its acrylic fiber.

Eastman Chemical Products, Inc.
Tennessee Eastman Co.

Effective November 15, 1956

"Verel"*

Deniers	Dull and Bright
2, 3, 5 and 8	$1.10 per pound

At the **GREENVILLE SHOW**

See the Diamond Finish

RING-ORAMA

"Report on Ring Progress"

These designs are really NEW, really DIFFERENT, really IMPROVE PRODUCTION

Rings of New Design That Improve Production

See you at booth 209

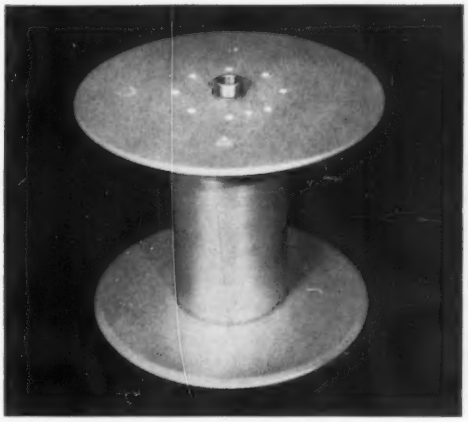
WHITINSVILLE (MASS.) SPINNING RING CO.

DIAMOND FINISH

Makers of Spinning and Twister Rings since 1873

Rep. for the Carolinas & Va.: W. K. SHIRLEY, P.O. Box 406, Belmont, N. C.

NO YARN TRAPPING WITH BRAZED ALUMINUM TWO POUND TAKE-UP BOBBIN



New aluminum take-up bobbin with barrel and heads brazed together into a single unit prevents yarn trapping. Exceptional strength at price no higher than ordinary bobbins.

Write us today for full details.

B W MACK **ALLENTOWN BOBBIN WORKS, INC.**

ALLENTOWN PENNSYLVANIA

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When you specify EMKAY Chemicals for your textile processing . . .

EMKAY chemicals have long been used by textile weavers, dyers, and finishers when economy, high quality, and service, are essential. Our years of experience and service qualify us to help solve your specific problem.

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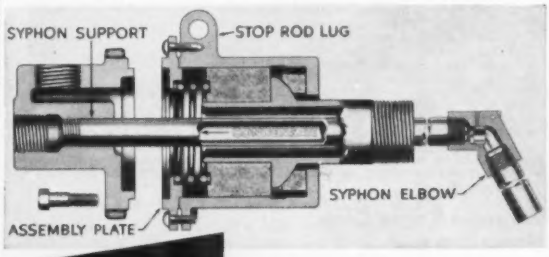
ELIZABETH, NEW JERSEY

SPECIALISTS FOR ALL PHASES OF TEXTILE PROCESSING . . .

TRY THIS on your Dry Cans and 30" Slasher Cylinders

We'll gladly furnish a pair of these units for 90-day obligation-free trial in your mill. The Type SB2P is self-supporting, completely packless, needs no lubrication or adjustment. The Johnson Syphon Elbow permits the use of two straight pipes instead of an unwieldy curved syphon pipe, is hinged to pass right through the joint.



Johnson ROTARY PRESSURE Joints

First in the Textile Industry

Write for Catalog S-3002

Shows self-supporting Johnson Joints for all needs . . . on print cans, compressive shrinkage ranges, calenders, big 5' and 7' cotton slashers, dry cans, etc.

THE JOHNSON CORPORATION

844 Wood St., Three Rivers, Mich.

Prices are subject to change without notice.
Terms: Net 30 days. Payment—U. S. A. dollars.
Transportation charges prepaid or allowed to destination in the United States east of the Mississippi River. Seller reserves the right to select route and method of shipment. If buyer requests and seller agrees to a route or method involving higher than lowest rate buyer shall pay the excess of transportation cost and tax.
• "Verel" is a trade-mark of the Eastman Kodak Co.

Union Carbide Chemicals Co.

Div. Union Carbide Corp.
Textile Fibers Dept.
Effective October 1, 1957

Dynel Staple & Tow

Natural Dynel	
3, 6, and 12 Denier, Staple and Tow	1.10 per lb.
24 Denier, Staple and Tow	1.05 per lb.
Dynel Spun with Light Colors:	
Whitened, Blond, or Gray	
3 and 6 Denier, Staple and Tow	1.30 per lb.
Dynel Spun with Dark Colors:	
Black, Charcoal, and Brown	
3 and 6 Denier, Staple and Tow	1.40 per lb.
Dynel Type 63 Bulking Fiber (3 Denier only)	Add $.05 per lb. to above prices

Prices are quoted f.o.b. South Charleston, W. Va.

NYLON

American Enka Corp.

Enka Nylon (Nylon Six Staple)

Denier	Luster	Length (Inches)	Price per pound
3	semi-dull	1½, 1½, 2, 2½, 3, 4½	$1.28
6	bright	3, 4½	1.28
8	bright	2½	1.20
10	bright	3	1.20
15	bright	3	1.20
15	semi-dull	3	1.20

Deniers and lengths of staple not listed above are available upon special request.
Terms: Net 30 days. Minimum common carrier transportation charges will be prepaid and absorbed to the first destination on or east of the Mississippi River. In prepaying transportation charges, seller reserves the right to select the carrier used.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.
Current Prices

Nylon Staple and Tow

Denier	Type	Staple Lengths	Tow Bundle	1st. Grade Price/Lb.	2nd Grade Staple Only
1.5	200	1½"—4½"	None made	$1.33	$1.18
1.5	201	1½"—4½"	None made	1.35	1.20
3.0	100/200	1½"—4½"	430M	1.28	1.13
3.0	101/201	1½"—4½"	455M	1.30	1.15
6.0	100	1½"—4½"	330M	1.28	1.13
6.0	101	1½"—4½"	345M	1.30	1.15
15.0	100	1½"—6½"	425M	1.20	1.05
15.0	101	1½"—6½"	None made	1.22	1.07
15.0	600	1½"—6½"	425M	1.22	1.07
15.0	601	1½"—6½"	None made	1.24	1.09

Staple lengths are restricted to the range shown opposite each denier above. The actual cut lengths within these ranges are as follows:

1½, 1½, 2, 2½, 3, 4½ and 6½"

Types

Type 100 Bright, normal tenacity, not heatset.
Type 101 Bright, normal tenacity, heatset.
Type 200 Semidull, normal tenacity, not heatset.
Type 201 Semidull, normal tenacity, heatset
Type 600 Dull normal tenacity, not heatset.
Type 601 Dull normal tenacity, heatset.
These prices are subject to changes without notice.
Terms—Net 30 Days.
Freight Terms—Terms are F.O.B. shipping point, freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.

Industrial Rayon Corp.

Effective August 18, 1958

Nylon Staple

1.5 denier	$1.33 per lb.
2, 3 and 6 denier	1.28 per lb.
8 denier	1.15 per lb.
15 and 22 denier	1.08 per lb.

Bright, semi-dull, and full-dull. Required lengths.
Terms: Net 30 days f.o.b. point of shipment; title to pass to buyer on delivery of goods to carrier. Domestic transportation charges prepaid with transportation allowed at lowest published rate to all points east of the Mississippi River.

POLYESTER

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.
Current Prices

"Dacron"* Staple and Tow

Denier	Luster	Type	Length	Tow Bundle	1st Gr.
1.25	Semidull	54	1¼"-3"		$1.56
1.5	Semidull	54	1¼"-3" & Tow	375M-600M	1.51
3.0	Semidull	54	1¼"-4½" & Tow	375M-500M	1.41
4.5	Semidull	54	1¼"-4½" & Tow	375M-500M	1.41
6.0	Semidull	54	1¼"-4½" & Tow	375M-500M	1.41

Terms: Net 30 Days.
F. O. B. Shipping Point—Freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if shipped overland, or port of exit of purchaser's choice east of Mississippi River.

POLYVINYL ACETATE

American Viscose Corp.

Effective October 1, 1956

"Vinvon"® Staple

3.0 denier	½" unopened	$.80 per lb.
3.0 "	1¼" unopened	.80 per lb.
3.0 "	1¼" opened	.90 per lb.
3.0 "	2" opened	.90 per lb.
3.0 "	2" unopened	.80 per lb.
5.5 "	1" opened	.90 per lb.
5.5 "	3½" opened	.90 per lb.
5.5 "	3½" unopened	.80 per lb.

Terms: Net 30 days.

SARAN FIBERS

The Saran Yarns Company — Odenton, Maryland

The Hall Company (Selling Agent)
41 East 42 Street, New York 17, N. Y. (Oxford 7-8996)
Current Prices:

Saran Staple

Type	Denier	Natural	Colors
2N	22	$0.70	$0.75
2N	16	.74	.79
3Q•	22	.63	.67

In any staple length 1½ to 6". Also 45 denier, 7" cut.
• For carpets and industrial fabrics.
F.O.B. Odenton, Maryland.
Terms: net 30 days.

METALLICS

The Dobeckmun Company

Lurex Yarn Division Current Prices

Lurex-MM (Made with Metalized Mylar)

	Guage	Width	Yield	Price Gold & Silver	Price Standard Colors and Multicolors
Silver Only					—
					—
					—
	150	1/128"	38,000	10.90	—
	150	1/100"	29,500	10.65	On Request
	150	1/64"	19,000	8.35	
	150	1/50"	14,500	8.20	
	150	1/32"	9,500	8.05	
	150	1/16"	4,750	7.90	

Lurex-MF (Mylar-Foil-Mylar) April 28, 1958

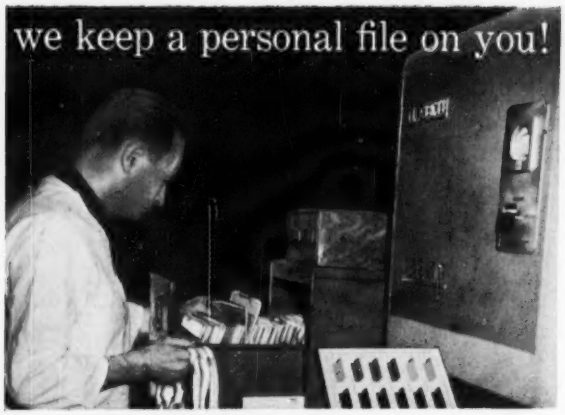
Guage	Width	Yield	Price Gold & Silver	Price Standard Colors and Multicolors
150	1/100"	25,000	$8.95	$9.30
150	1/64"	17,200	5.70	6.30
150	1/50"	12,500	5.60	6.15
150	1/32"	8,600	5.50	6.00
150	1/16"	4,000	5.45	5.85

Lurex (Regular, "Butyrate") July 1, 1957

Guage	Width	Yield	Price Gold & Silver	Price Standard Colors and Multicolors
260	1/100"	16,400	$4.50	On Request
260	1/80"	13,000	4.00	
260	1/64"	10,500	3.35	
260	1/50"	8,200	3.25	
260	1/32"	5,200	3.00	
260	1/16"	2,600	2.85	

A. Lurex, Lurex-MM and Lurex-MF are the registered trade-marks of The Dobeckmun Company. Lurex-MM is covered by U. S. Patent #2714569, Serial #267,108. Multicolor is Patent Pending. Mylar is DuPont's polyester film.
B. Standard Colors:

L-941	Scarlet	L-981	Pink Opal
L-984	Turquoise	L-942	Peacock Blue
L-940	Emerald Green	L-983	Violet
L-861	Bronze	L-978	Gunmetal
2A-1	Multicolor	3A-2	Multicolor
4A-5	Multicolor	4A-7	Multicolor
6A-1	Multicolor	6A-2	Multicolor
L-869	Fuchsia	L-982	Blueflower
L-935	Royal Blue	L-980	Apple Green
L-1008	Purple	L-933	Copper
L-850	Jet	L-1007	Green Gold
3A-3	Multicolor	1A-3	Multicolor
4A-14	Multicolor	4A-4	Multicolor
6A-3	Multicolor	4A-15	Multicolor
		3A-4	Multicolor



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YARN DYEING

Rayon • Nylon • Acetate • Stretch Yarns
Cakes • Packages • Skeins

Custom-matched colors. Large dye batches.
Any degree of color fastness. Packaged as desired.
PROMPT DELIVERY

Atlantic
Rayon Corporation

125 WEST 41st ST., NEW YORK 36, LONGACRE 3-4200
PLANT: 86 CRARY ST., PROVIDENCE, R. I.

New Polyolefin Resins Offered

Development of the first of a new series of Fortiflex polyolefin resins has been announced by Celanese Corp. of America.

According to Dr. Ralph H. Ball, technical director of the company's plastics division, the addition of the new Fortiflex B polymers to the existing Fortiflex A series provides a group of resins with a range of properties surpassing that of any other type of large-volume, thermoplastic material.

The new series is expected to serve a number of new end uses, including monofilaments for such products as rope and outdoor furniture webbing, wire covering, paper coating, and film. Celanese is now producing commercial quantities of the first polymer of the group at its Houston, Tex., plant, and additional polymers for other uses will be in production shortly.

Each member of the new series of polymers is specifically designed to provide an optimum balance of properties for a given end use. Dr. Ball said the new series is one of the first commercial examples of polymer chemistry's recently developed ability to create made-to-order plastics with predetermined properties for specific applications.

The new polymers, he explained, have been designed for sustained stress service and load bearing. Improved stress resistance is created by adding branches of the proper type at proper intervals to the long, straight molecular structure of rigid polyethylene. These branches substantially reduce any tendency of the molecules to slip past each other under stress. In addition, the new polymers show improved flow and processability characteristics.

Celanese research chemists report that introducing controlled branching results in a decided change in the behavior of polymer under stress. The extent to which the monofilaments stretch under a steady load test is reduced sharply; the length of time for breaks to occur in this test is more than 10 times greater with these new polymers, it was said.

Rigid polyethylene, which has been produced commercially for less than two years, is characterized by greater heat resistance, stiffness, toughness, hardness and surface luster than is found in conventional polyethylene. It has found ready acceptance in injection molded parts, such as housewares, toys, appliance parts and a variety of industrial moldings.

New Filament Carpet Nylon

Du Pont has now in limited production a new filament nylon yarn, called Type 501, for carpets. The yarn will be introduced in all-nylon carpeting this fall by James Lees & Sons and E. T. Barwick Mills. Type 501 is an additional product for the carpet field and is a supplement to nylon staple for this use. It is expected to result in a broader range of styles and textures. The new product is being produced initially in 1300 denier and 3900 denier, priced at $1.53 and $1.47 a pound, respectively.

Urges "Dressing Right"

How one man discovers that dressing right is an important factor to success in business and social life is the theme of a new consumer motion picture, "The Cut of Your Jib." The 14-minute color sound film was produced by the American Institute of Men's and Boys' Wear, in cooperation with the National Association of Men's Apparel Clubs, in connection with the AIMBW's national "Dress Right" educational campaign. National distribution is scheduled. *For free loan copies of the film for screening write the editors.*

Malina acts as your stockroom!
Delivers when wanted...immediately!

RAYON • NYLON • ACETATE YARNS
graded and inferiors—all put ups.

MALORA® METALLIC YARNS
supported and unsupported

THROWN YARNS

HELANCA® STRETCH YARNS
NYLON • DACRON

Exclusive selling agents for Synthetic Yarns Inc. and Synfoam Yarns Inc., Lowell, Mass.

Malina
COMPANY

125 WEST 41st STREET, NEW YORK 36, LOngacre 3-4200

C. Other colors available on a *custom basis only* for which a minimum firm order of 150 lbs. is required.
Regular color prices will apply.
After approval of color swatch, one sample run of 10 lbs. or over can be ordered with an up-charge of $2.00 per lb. over regular color prices.
D. Lurex-MM, Lurex-MF and regular Lurex is supplied on disposable spools having plastic end plugs with ⅜" I.D. holes. Spools contain approx. 1 lb. of yarn.
E. Cases contain 6 "LUR-PAKS". Each "LUR-PAK" contains 6 one pound spools.
Weight Data: 1 case 1 lb. spools, gross wt. approx. 44 lbs.—tare wt. approx. 10 lbs.—net wt. approx. 34 lbs.
F. Yields are subject to variation of plus or minus 5%.
G. Terms: 1% 10 days from date of invoice, net 30 days, F.O.B. Cleveland, Ohio. Minimum freight allowed on shipments of 100 pounds and over.
H. Quantity Discount 2,000 to 5,000 lbs., 3%—5,000 lbs. and over, 5%.

Lurex Staple

	#260 Butyrate	#150-MF	#150-MM	#100-MM
Straight	$3.00	$5.55	$7.65	$9.50
Crimped	3.10	5.65	7.75	9.60

A. Widths—1/64", 1/100", 1/120", 1/200".
B. Lengths—⅛" to 6⅛" in increments of ⅛".
C. Colors—Gold, Silver, others on request.
D. Put-Up: Cartons containing approx. 20# net, 23# gross.
E. Terms: 1% 10 days, net 30 days, F.O.B. Haverhill, Mass. No freight allowed.

Fairtex Corporation
1808 Liberty Life Building
Charlotte 2, N. C.
January 23, 1958

1. Fairtex No. 260 (butyrate)—gold, silver and copper.

Width	Yield (Per Pound)	Price (Per Pound)
1/120"	21,000	$4.75
1/80"	13,000	4.00
1/64"	10,800	3.35
1/50"	8,400	3.25
1/32"	5,300	3.00
1/16"	2,600	2.85
1/8"	1,300	2.70

2. Fairtex with Mylar* No. 100V (2 ply), (metallized type)—silver only.

1/100"	48,000	$13.25
1/80"	37,000	11.40
1/64"	31,000	10.40
1/50"	24,200	10.15
1/32"	15,500	9.80

Fairtex with Mylar* No. 150V (3 ply), (metallized type)—gold, silver and copper.

1/100"	32,000	$10.65
1/80"	25,000	9.25
1/64"	21,000	8.35
1/50"	16,400	8.20
1/32"	10,500	8.05

3. Fairtex with Mylar* No. 150F, (foil type)—gold, silver and copper.

1/100"	28,000	$7.75
1/80"	21,450	7.00
1/64"	17,200	5.70
1/50"	13,400	5.60
1/32"	8,600	5.50
1/16"	4,300	5.45

4. General Information:
a. Staple available upon request on above types.
b. Above types also available supported with Nylon, Fortisan or other synthetics.
c. Colors available on above upon request at slight additional cost.
d. Quantity discounts on above prices.
e. Fairtex is supplied on 1 lb. disposable spools—48 spools per case and on ½ lb. disposable spools—100 spools per case.

Metlon Corp.
Effective April 28, 1958

Metlon*-Mylar** Price List
Metlon* F-Mylar (Foil Laminated)

Width	Yards Per Lb. (Plus or minus 5%)	Price Per Lb. Gold or Silver	Price Per Lb. Standard Colors
1/120"	32,200	$9.80	$10.15
1/80"	21,500	7.10	7.45
1/64"	17,200	5.70	6.30
1/50"	13,500	5.60	6.15
1/32"	8,600	5.50	6.00
1/16"	4,300	5.45	6.00
1/8"	2,150	5.45	6.00

Quantity Discounts: 2,000 lbs.—3%
5,000 lbs.—5%

To earn discount, quantity ordered must be withdrawn within 90 days from date of order.
Terms: 1% 10 days, net 30. F.O.B. Providence, Rhode Island. Minimum freight allowed on shipments of 100 lbs. or over.
Put Up: Plastic Disposable Spools.
Minimum Order: One case (approximately 40 lbs. net). Smaller quantities subject to surcharge.
Palletizing: On request, shipments of 4 cases or more will be palletized without additional charge.
Prices apply to continental U. S. A., Canada and Mexico.
* Metlon's registered trademark for non-tarnishing metallic yarn.
** DuPont's registered trademark for polyester film.

Reynolds Metals Co.
Reynolds Aluminum Yarns
January 29, 1958

200 Series

¢ PRICE PER POUND—48 THRU 1,999 POUNDS

	PRODUCT NUMBER	WIDTH	APPROX. YIELDS IN LINEAL YDS. PER LB.	(1) Standard Colors	(2) Special Colors	(3) Non-Standard Colors	(4) Multi-Colors
Acetate-Butyrate	204	1/8"	1,350	$2.80	$3.05	$3.05	$3.05
	204	1/16"	2,700	2.85	3.10	3.10	3.10
	204	1/32"	5,400	3.00	3.25	3.25	3.25
	204	1/50"	8,450	3.25	3.50	3.50	3.50
	204	1/64"	10,800	3.35	3.60	3.60	3.60
	204	1/80"	13,500	4.00	4.25	4.25	4.25
Mylar-Foil	230	1/8"	1,450	$5.60	$5.95	$5.95	$5.95
	230	1/16"	2,900	5.75	6.10	6.10	6.10
	230	1/32"	5,800	5.90	6.25	6.25	6.25
	230	1/50"	9,050	6.05	6.40	6.40	6.40
	230	1/64"	11,600	6.20	6.55	6.55	6.55
	230	1/80"	14,450	7.25	7.60	7.60	7.60
Mylar-Foil	235	1/8"	2,150	$5.35	$5.70	$5.70	$5.70
	235	1/16"	4,300	5.45	5.85	5.85	5.85
	235	1/32"	8,600	5.50	6.00	6.00	6.00
	235	1/50"	13,400	5.60	6.15	6.15	6.15
	235	1/64"	17,200	5.70	6.30	6.30	6.30
	235	1/80"	21,450	7.00	7.35	7.35	7.35
Mylar-Foil	215	1/8"	1,730	$5.30	$5.65	$5.65	$5.65
	215	1/16"	3,460	5.45	5.80	5.80	5.80
	215	1/32"	6,920	5.60	5.95	5.95	5.95
	215	1/50"	10,800	5.75	6.10	6.10	6.10
	215	1/64"	13,840	5.90	6.25	6.25	6.25
	215	1/80"	17,270	6.95	7.30	7.30	7.30

Reymet Staple: Foil Mylar $6.00 per lb.
Metallized Mylar: $10.50 per lb. These can be cut in width to 1/220", also full range of Colors.
(1) Standard Yarn Colors: Silver and Gold.
¢ (2) Special Yarn Colors: Refer to Products Supervisor, Special Foil Products located at Richmond, Va.
(3) Non-Standard Yarn Colors: Refer to Products Supervisor, Special Foil Products located at Richmond, Virginia.
(4) Multi-Colors: One or two colors.
¢ Quantity Discounts to be applied on invoice:
5,000 lbs. and over less 5%.
2,000 thru 4,999 lbs. less 3%.
Items can be grouped for quantity price provided each is held to a minimum of 250 pounds. No grouping for less than 250 pounds.
Minimum acceptable orders for standard and special colors is 48 pounds per size and color.
Minimum acceptable order for non-standard colors is 150 pounds per size and color.

AVAILABLE PACKAGES:
Following types available:
Die-cast aluminum spools with straight flange; 3" O.D., 3¼" traverse. Each spool contains approximately 8 ounces of yarn. These spools, billed at $.40 each are returnable for credit in good condition, F.O.B. Reynolds Metals Company, 11th & Byrd Streets, Richmond, Virginia.
No charge returnable plastic spools with 3¼" O.D., 4⅛" traverse. Each spool contains approximately 1 pound of yarn. These spools are returnable for credit @ $.02 each F.O.B. customer's plant. Subject to inspection and count of seller.
Tin spools with straight flange with 3" O.D., 3¼" traverse. Each spool contains approximately 8 ounces of yarn. These spools, billed at $.10 each are returnable for credit in good condition, F.O.B. Reynolds Metals Company, 11th & Byrd Streets, Richmond, Virginia.

PACKING:
36 spools per corrugated fiber carton, size 18-1/16" x 14-1/16" x 11".

ORDERING DATA:
Specify Product, Width, Color and Type of Spool.

Aluminized Series

PRODUCT NUMBER	WIDTH	APPROX. YIELDS IN LINEAL YARDS PER POUND	PRICE PER POUND 48 THRU 1999 POUNDS
250	1/32"	10,000	$8.05
250	1/50"	15,650	8.20
250	1/64"	20,000	8.35
250	1/80"	25,000	10.25
255	1/32"	15,500	$9.80
255	1/50"	24,200	10.15
255	1/64"	31,000	10.40
255	1/80"	38,700	12.40

250 offered in silver and gold.
255 offered in silver only.
Quantity discounts to be applied on invoice:
2,000 lbs. and over less 3%.
5,000 lbs. and over less 5%.
Sizes can be grouped for quantity price providing each is held to a minimum of 250 lbs.
No grouping for less than 250 lbs. Minimum acceptable order is 48 pounds per item.

AVAILABLE PACKAGES:
Following types available.
Die-cast aluminum spools with straight flange, 3" O.D., 3¼" traverse. Each spool contains approximately 8 ounces of yarn. These spools, billed at $.40 each, are returnable for credit in good condition, F.O.B. Reynolds Metals Company, 11th and Byrd Streets, Richmond, Virginia.
No charge returnable plastic spools with 3¼" O.D., 4⅛" traverse. Each spool contains approximately 1 pound of yarn. These spools are returnable for credit @ $.02 each, F.O.B. customer's plant. Subject to inspection and count of seller.
Tin spools with straight flange with 3" O.D., 3¼" traverse. Each spool contains approximately 8 ounces of yarn. These spools, billed at $.10 each, are returnable for credit in good condition, F.O.B. Reynolds Metals Company, 11th and Byrd Streets, Richmond, Virginia.

PACKING:
36 spools per corrugated fiber carton, size 15¼" x 14⅛" x 11".

ORDERING DATA:
Specify Product, Color, Width, and Type of Spool.

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Calendar of Coming Events

Sep. 8-9—2nd annual Textile Symposium. Sedgefield Inn, Greensboro, N. C.
Sep. 9-10—The Fiber Society, Inc. fall meeting. Queen Elizabeth Hotel, Montreal, Canada.
Sep. 10—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Sep. 11-12—Combed Yarn Spinners Association annual meeting. The Cloister, Sea Island, Ga.
Sep. 11-12—Sixth Canadian Textile Seminar. Queen's University, Kingston, Ontario.
Sep. 12—Delaware Valley Section AATCC meeting. Wilmington, Del.
Sep. 12—Northern New England Section AATCC outing. Wachusett County Club, West Boylston, Mass.
Sep. 13—South Central Section AATCC meeting. Hotel Patten, Chattanooga, Tenn.
Sep. 18—Instrument Society of America annual Conference and Exhibit. Executives Day. Sheraton Hotel, Philadelphia, Pa.
Sep. 18-19—Chattanooga Yarn Association annual outing. Read House, Chattanooga, Tenn.
Sep. 19-20—AATCC Piedmont Section. Hotel Charlotte, Charlotte, N. C.
Sep. 25-26—Northern Textile Association. Wentworth-by-the-Sea, Portsmouth, N. H.
Sep. 25-26—Textile Quality Control Association, fall meeting. Grove Park Inn, Asheville, N. C.
Sep. 26—AATCC Niagara Frontier Section. Niagara Falls, Ont. Can.
Sep. 26—AATCC Rhode Island Section. Warwick Country Club, Warwick, R. I.
Sep. 26—AATCC Western New England Section. Hartford, Conn.
Oct. 1—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Oct. 1-2—National Cotton Council, Chemical Finishing Conference. Washington, D. C.
Oct. 6-10—Southern Textile Exposition. Greenville, S. C.
Oct. 9-10—North Carolina Textile Manufacturers Association annual meeting. Carolina Hotel, Pinehurst, N. C.
Oct. 10—Southern Textile Overseers Association. Greenville, S. C.
Oct. 11—Textile Operating Executives of Georgia. A. French Textile School, Atlanta, Ga.
Oct. 13-15—ASME-ASLE Lubrication Conference. Statler Hotel, Los Angeles, Cal.
Oct. 13-15—Atlanta Merchandise Mart Fall Intermediate Market. Atlanta, Ga.
Oct. 13-16—National Industrial Packaging, Handling and Shipping Show. The Coliseum, Chicago, Ill.
Oct. 14-17—ASTM Committee D-13 on Textiles. Sheraton-McAlpin Hotel, New York, N. Y.
Oct. 15-25—International Textile Machinery Exhibition. Belle View, Manchester, England.
Oct. 21-22—1958 Cotton Spinner-Breeder Conference. Lubbock, Texas.
Oct. 23-24—Southern Textile Methods and Standards Assoc. Clemson House, Clemson, S. C.
Oct. 25—Alabama Textile Operating Executives fall meeting. Thach Auditorium, Auburn, Ala.
Oct. 28-29—Institute of Textile Technology Technical Advisory Committee and Board of Trustees meetings. Charlottesville, Va.
Oct. 28-31—Carded Yarn Assoc. annual meeting. The Homestead, Hot Springs, Va.
Oct. 30-Nov. 1—AATCC National Convention. Hotel Conrad Hilton, Chicago, Ill.
Nov. 5—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Nov. 7-8—Textile Seminar sponsored by University of Georgia Division of Clothing and Textiles in Extension, Teaching, and Research. Georgia Center for Continuing Education, Athens, Ga.
Nov. 8—Georgia Textile Operating Executives, Fall meeting. A. French Textile School, Atlanta, Ga.
Nov. 17-19—Narrow Fabrics Institute, annual meeting. Hotel Roosevelt, New York, N. Y.
Dec. 3—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.

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Jan. 7—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.

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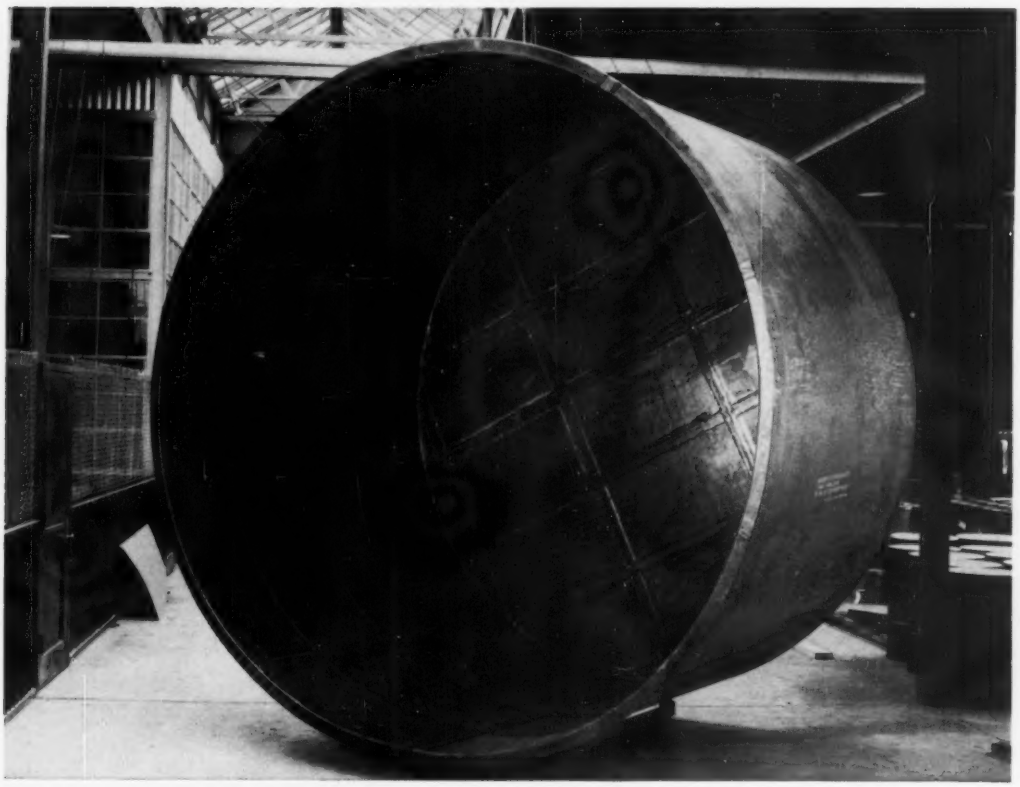

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